
FINAL REPORT

Contract No. FA-67-WAI-129
Project No. 197-641-01R

CLIMATOLOGICAL SUMMARIES

VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET

Volume 33



PORTLAND, OREGON
PORTLAND INTERNATIONAL AIRPORT

June 1969

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DEPARTMENT OF TRANSPORTATION
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Systems Research & Development Service

Ьy

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Contract No. FA-67-WAI-129 Project No. 197-641-01R SRDS Report No. RD-69-22

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VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET

JUNE 1969

This report has been prepared by U. S. Department of Commerce, Environmental Science Services Administration, Environmental Data Service, National Weather Records Center, Asheville, N.C. for the Systems Research and Development Service, Federal Aviation Administration, under Contract No. FA-67-WAI-129. The Contents of this report reflect the views of the contractor, who is responsible for the facts and the accuracy of the data presented herein, and do not necessarily reflect the official views or policy of the FAA. This report does not constitute a standard, specification or regulation.

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Temperature less than 29°F, with fog, no precipitation

Temperature greater than 32° F, with fog, no precipitation

Temperature greater than 32 with fog, no precipitation and

XVIII Temperature less than 29° F, with fog, no precipitation

and wind less than 9 knots.

Temperature greater than 32° F.

and wind less than 9 knots. o

and wind 9-12 knots.

wind 9-12 knots.

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INTRODUCTION

The tables contained herein have been prepared and organized for use in evaluating the cost/benefits of all weather landing systems and fog dissipation techniques. Thus, the time intervals of duration of the categories of weather are significant in determining the times of the delay, diversion or cancellation of an aircraft flight resulting from a restricted weather category. This information together with the number and types of aircraft affected by the restricted weather and the costs of a delay, diversion or cancellation combine to provide the total costs resulting from the weather restrictions.

Climatological summaries have been prepared for 41 airports. Their location and associated volume numbers are listed in Table A.

ENVIRONMENT AND INSTRUMENTATION

PORTLAND, OREGON

PORTLAND INTERNATIONAL AIRPORT

The airport is located in approximate center of the Columbia River Valley where it is about 5 miles wide. The area surrounding the airport is benched with truck farms. The Cascade Mountains form a continuous north to south chain about 35 miles east except for the Columbia River Gorge. The Coast Range of about 300 feet MSL average height parallel the Cascades about 40 miles west. The weather station is located about 300 feet south of the Columbia River on level diked land.

The tables in this publication are based on the 10-year period January 1, 1956-December 31, 1965. Ceiling heights were measured by ceilometer throughout the period. Transmissometers (500 ft. baseline) commissioned on runway 10R February 27, 1962, and on runway 28R September 25, 1965. Location of the airport weather station, its elevation, and the height of wind instrumentation during the period were as follows:

From	To	Lat. N.	Long, W.	Height of Wind Instrument Feet above ground	Station Elevation Feet above MSL
1- 1-56	8-17-58	45° 36'	122° 36'	33	21
8-17-58	12-31-65	45° 36	122° 36'	20	21

NATURE OF DATA

The data used in the preparation of the climatological tables were extracted from 10 years of WBAN 10-A forms from January 1956 through December 1965. There were two exceptions: The data for Dulles International covered the period January 1963 through December 1965 and for Kansas City-Mid-Continent the period July 1957 through December 1965. All data (Record, Special, Local, Check observations) were recorded on punched cards to the hour and minute whenever a change occurred in the ceiling, surface visibility, present weather, runway visual range or runway visibility during the time the ceiling was less than 200 feet and/or the surface visibility was less than 1/2 mile. The observation which ended a category of the above conditions was punched and if this observation was not a Record observation, the next Record observation was punched. The elements transcribed were: the time in hours and minutes, ceiling, surface visibility, tower visibility, present weather, temperature, dewpoint, surface wind, altimeter setting and remarks concerning runway visual range and runway visibility. visibility.

These data should prove to be a valuable source for additional studies where low visibilities are considered.

Runway visual range (RVR) is the operational weather criteria for airport landing systems. The limits of visibility conditions for categories of aircraft operations are presented in Table B. Only Cat. II criteria are currently operational. Because RVR as such, is not available on a uniform basis for the station and period of record under study, visibilities and ceilings were used for delineating categories of weather minimums for landing and take-off operations. The determination of RVR would require:

- The light serting of the edge lights, the background lighting,
- the location with respect to runway, 3.
- a special analyzer to integrate the transmissiometer readings etc.

This information has not often been recorded with the transmissiometer data.

* Except Kansas City - Mid-Continent. Only Record (hourly) observations were taken during the period of record at this station; 16 hours per day (0700-2200) through November 1957 and 24 hours per day December 1957 through December 1965.

EXPLANATION OF TABLES

All the tables of climatological summaries except Table I are based on the reported visibilities of less than 1/2 mile and/or ceilings less than 200 feet.

The tables of climatological summaries in these publications include:

- (1) reported visibility and ceiling values versus time intervals of duration.
- (2) weather categories of aircraft landing systems based on their relationship to ceiling and visibility as presented in Table C, versus intervals of duration. This is Table X only.
- (3) percentage frequency of wind direction versus wind speed for each category of aircraft landing system using the relationship of Table C for Record observations only. These are presented for 13 stations only. This is Table XI only.*
- (4) weather categories of landing systems based on their relationship to ceilings and visibility as presented in Table E, versus intervals of duration. These tables are also summarized on the basis of wind speed and temperature values.

• These stations are:

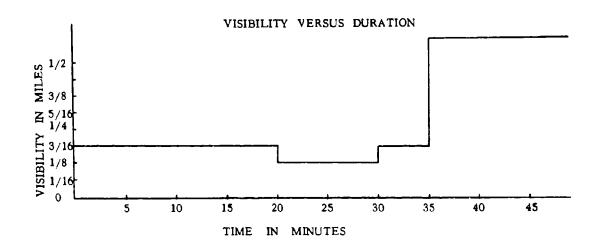
Los Angeles International, Oakland International, Chicago O'Hare, San Francisco International, Greater Buffalo International, Washington National, Washington Dulles International, Atlanta, Newark, New York J. F. K., Philadelphia International, New York La Guardia, Cleveland Hopkins International

REPORTED VISIBILITY AND CEILING VALUES VERSUS INTERVALS OF DURATION

Nine summaries are presented. In Tables I - V the values represent the individual incidents of specified ceiling and visibility. Thus, in Table III 3/8 mile visibility with 100 ft. ceiling occurs with a specific frequency for each interval of duration.

In Tables VI to IX, the frequency of occurrence represents visibilities for specific conditions of ceilings at or below the listed visibility. They are cumulative incidents wherein the total time at or below a certain visibility value for the ceiling value specified is considered as one incident. Thus, if in Table VII there are 172 incidents of 3/8 mile in the interval of 1-15 minutes, it represents 172 times during the 10-year period that visibilities 3/8 mile or less with ceilings 100 feet.

Another example which combines the entries in the individual and the cumulative tables is as follows: If visibility is distributed as shown in the figure, for ceiling 100 feet, if for 20 minutes the visibility was 3/16 then went to 1/8 for 10 minutes, then went to 3/16 for 5 minutes and then to greater than 1/2 mile visibility in Table III there would be 2 counts for 3/16, one under 16-30 minutes and one under 1-15 minutes; and one count for 1/8 under 1-15 minutes; whereas, in the cumulative table for visibilities at or below a given visibility with 100-foot ceilings - Table VII in the 3/8, 5/16, 1/4 and 3/16 mile categories there would be one count under 31-45 minutes (actually 35 minutes) and one count in 1/8 mile category under 1-15 minutes (actually 10 minutes).



To estimate the total time of occurrence for a particular interval of time for the period of record one multiplies the average of time period by the frequency of occurrence of the specified conditions for this time period. Thus, if visibility of 3/8 mile with ceiling 100 feet (Table III) occurred 14 times between 16-30 minutes, the estimated total time would be 14 x 23 or 322 minutes.

WEATHER CATEGORIES OF AIRCRAFT LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE D

A single table (Table X) based on Table C for the period of record is presented. Table C is based on the current practices relating RVR to meteorological visibilities as shown in Table D.

Table X is in three sections:

PRINCES SERVICE REPORT OF THE PERSON OF THE

Xa. Frequency of occurrence of the landing categories versus the indicated duration intervals:

In this summary Categories II, IIIa, IIIb, and IIIc are represented by the frequency of these conditions occurring during the specified intervals.

In Category II + III the trequency represents the visibilities and ceilings at or below Category II weather, i. e., below 200 feet and/or 1/2 mile for a continuous period of time.

In Category III, the number of occurrences represent the frequency the weather was in in Category IIIa and IIIb/c i.e., observation below 1/4 mile and equal to and above 1/4 mile when the ceiling is reported as zero for a continuous period of time.

Xb. Total time in each duration versus the duration intervals in hours and tenths of hours. The entries in this table are arrived by adding the times in minutes associated with the frequencies above. These totals are converted to hours and tenths. This table also contains the percentage of time for the 10-year period of observations of specified duration intervals, i. e., 1-90, 91-all, 1-all. This table is der./ed by dividing the total time under each category for the specified duration interval by the total number of hours. Thus the percentage value for Category II + III the 1-all group (last column, 4th value down) represents the frequency of occurrence for the ten-year period in percent of visibility and ceilings below 1/2 mile and/or 200 feet.

Xc. Average time in each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each item in Table Xb by the frequency of occurrence ir. Table Xa.

WIND DIRECTION VERSUS SPEED BY PERCENTAGE FREQUENCY (Table XI)

Table XI (for 13 stations) (unnumbered on summaries) show the percentage distribution of the different categories in accordance with Table D by wind direction to 16 points versus specified speed intervals. These categories, II, IIIa and IIIb/c, are divided into 2100-0500 and 0600-2000 hour groups making a total of six sub-tables.

Only the hourly (Record) observations when Category II or below conditions exist are used in these summaries. The percentages are determined by dividing the number of hourly observations which were recorded during the entire period of record for the indicated hour group. The percentage figures can be combined to obtain percentages for the quadrants of different speed intervals.

WEATHER CATEGORIES OF LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE E

Nine tables XII - XXI are presented for the ten-year period. These tables are presented in three sections:

a. Frequency of occurrences of landing categories versus duration intervals:

Categories II, IIIa, IIIb, and IIIc are represented by the total time for the specified hour group that these conditions occur during the indicated intervals.

In Categories II + III the frequency represents the visibilities and ceilings at or below Category II weather e. g., below 2400 RVR. In Category III the frequency represents the visibilities at or below Category III weather e. g., below 1200 RVR.

b. Total time in each duration versus the duration intervals hours and tenths,

The entries in this table are derived by adding the time in minutes associated with the frequency above and converting them to hours and tenths.

c. Average time in each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each value in b by the corresponding frequency of occurrence in a.

In these tables, since the period of duration is the important element, each incident of weather is attributed to the hour group during which it began. Thus, if Category IIIa weather began in the 22-06 hour group and continued into the 07-13 hour group the total time is placed in the 22-06 group. It is probable, then, that the incidence of the various categories may be overestimated in the 22-06 group. The totals appearing in the all hour group, however, are correct.

The sum of Categories IIIa, IIIb, and IIIc in the all-hour groups and sometimes in the other hour groups are frequently greater than under Cat. III. This results from the addition of 5% of observations of 3/16 mile or greater with ceiling 100 feet added to Cat. IIIa, whereas, this 5% is not included in the Cat. III totals at the bottom of each table.

The difference between Cat. III totals and the sum of Cat. IIIa, IIIb, and IIIc are subtracted from the Cat. II totals for the all-hour group and appears at the end of the Cat. II line with an asterisk. This value is a better estimate of the occurrence of Cat. II weather for the 10-year period.

EXPLANATION OF TABLE E

The relationship of RVR with light setting 5 for a 500' baseline to the meteorological report of visibility, based on the information in Circular N^1 /, is given in Table F. This was the basis for establishing the relationships in Table E. The use of the highest setting for the edge lights for approaches in low visibility is the current operational practice. Although the selection of some of the relationships in Table E have been somewhat arbitrary, it can be expected that the observers report of low visibilities and ceilings will be more inexact than the cut off point of these relationships.

1/ Manual of Surface Observations (WBAN). Circular N, Weather Bureau, Washington, D. C. NAVAIR 501D505, July 1968 (AD672-366)

ACKNOWLEDGEMENTS

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This is one of 41 volumes of Report RD-69-22. The volumes are as follows:

VOL.	CITY	AIRPORT
1.	Anchorage, Alaska	International
2.	Atlanta, Georgia	Atlanta
3.	Baltimore, Maryland	Friendship International
4.	Birmingham, Alabama	International
5.	Boston, Massachusetts	General E. L. Logan International
6.	Buffalo, New York	Greater Buffalo International
7.	Burbank, California	Hollywood-Burbank
8.	Chicago, Illinois	O'Hare International
9.	Cincinnati, Ohio	Greater Cincinnati
10.	Cleveland, Ohio	Cleveland-Hopkins International
11.	Columbus, Ohio	Port Columbus International
12.	Dalias, Texas	Love Field
13.	Dayton, Ohio	James M. Cox Municipal
14.	Denver, Colorado	Stapleton International
15.	Detroit, Michigan	Detroit Metropolitan-Wayne County
16.	Hartford, Connecticut	Bradley International (Windsor Locks)
17.	Houston, Texas	William P. Hobby
18.	Indianapolis, Indiana	Weir Cook
19.	Kansas City, Missouri	Mid-Continent International
20.	Los Angeles, California	Internationa)
21.	Louisville, Kentucky	Standiford Field
22.	Miami, Florida	International
23.	Milwaukee, Wisconsin	General Mitchell Field
24.	Minneapolis, Minnesota	Minneapolis-St. Paul International
25.	Nashville, Tennessee	Metropolitan
26.	Newark, New Jersey	Newark
27.	New Orleans, Louisiana	International
28.	New York, New York	John F. Kennedy International
29.	New York, New York	La Guardia
30.	Oakland, California	Metropolitan Oakland International
31.	Philadelphia, Pennsylvania	International
32.	Pittsburgh, Pennsylvania	Greater Pittsburgh International
33.	Portland, Oregon	International
34.	Rochester, New York	Rochester-Monroe County
35.	St. Louis, Missouri	Lambert-St. Louis Municipal
36.	Salt Lake City, Utah	Municipal No. 1
37.	San Francisco, California	International
38.	Seattle, Washington	Seattle-Tacoma International
39.	Syracuse, New York	Clarence E. Hancock
40.	Washington, D. C.	Dulles International
41.	Washington, D. C.	National

TABLE A

LIMITS OF LANDING CATEGORIES

- Operations down to minima below 200 feet dec. sion height and 2400 RVR and to as low as 100 feet decision height and 1200 RVR.
- CAT. IIIA Below 100 feet decision height and 1200 RVR and to as low as 50 feet decision height and 700 RVR.
- CAT, IIIB Below 700 RVR to 150 RVR.
- CAT. IIIC No external visual reference.

TABLE B

- Current operational criteria Criteria not firm, used for planning purposes

CEILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES OF AIRCRAFT LANDING OPERATIONS CURRENT PRACTICE CRITERIA for Table X and XI

Category II: Visibility = 1/2 and ceiling = 100

Visibility = 3/8 and ceiling $\neq 0$

Visibility = 5/16 and ceiling $\neq 0$

Visibility = 1/4 and ceiling $\neq 0$

Category III-a: Visibility = 1/4 and ceiling = 0

Visibility = 3/16 and all ceilings

Visibility = 1/8 and all ceilings

Category III-b/c: Visibility = 1/16 and all ceilings

Visibility = 0 and all ceilings

Category III: The sum of IIIa, IIIb, and IIIc

TABLE C

RVR VERSUS VISIBILITY (Current Practice)

METEOROLOGICAL VISIANITY	RVR EQUIVALENT
Statute Miles (feet)	Feet
5/16 (990 feet)	1200
1 1/4 (1320 feet)	1600
• 1/2 (2640 feet)	2400

TABLE D

• United States Standard for Terminal Instrument Prote ures (TERPs), Federal Aviation Agency, September 1966.

CEILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES OF AIRCRAFT LANDING OPERATIONS Criteria for Tables XII-XXI

Category II Below 2400 ft. RVR to 1200 ft. RVR

Equivalent Meteorological Observations

All observations with visibilities greater than 3/8 mile with ceiling 100 feet.

All observations of 3/8 mile with ceiling not equal to zero.

All observations of 5/16 mile with ceiling not equal to zero.

All observations of 1/4 mile with ceiling not equal to zero.

All observations of 3/16 mile with ceiling not equal to zero.

Category III
Category IIIa
Below 1200 ft. RVR to
700 ft. RVR

All observations of 1/8 mile.

All observations of 3/16 mile or greater with zero ceiling.

5% of observations of 3/16 mile or greater with ceiling 100.

Category IIIb
Below 700 ft, RVR to
150 ft, RVR

All observations of 1/16 mile.

50% of all observations of zero miles.

Category IIIc Below 150 ft. RVR

50% of observations of zero miles.

TABLE E

RVR VERSUS METEOROLOGICAL VISIBILITY

Circular N

Reported Meteorological Visibilities	RVR (500 ft. i	Category	
Miles (feet)	Day	Night	
0 (less than 330 feet)	•	•	(IIIc and IIIb)
1/16 (330 feet-650 feet)	•	•	(IIIb)
1/8 (660 feet-980 feet)	1000-1400	•	(IIIb and IIIa)
3/16 (990 feet-1310 feet)	1400-1800	1200-1800	(Cat. II)
1/4 (1320 feet-1640 feet)	1800-2200	1800-2200	(Cat, II)

[•] No determination of RVR with respect to meteorological visibility.

TABLE F

PORTLAND, INTERNATIONAL

PREQUENCY OF INTERVALS OF DURATION VERSUS CATEGORIES OF VISIBILITIES

OUMATION IN MINUTES
1-15 10-30 31-65 40-60 61-60 91-20 121-180 181-260 241-360 361-480 48159 41 36 18 7 88

	RESPECT	IVE OF	cetut	MG) .							
TABLE 11. (IR											
					DURA	TION IN	HINUTES				
3/8	1-15 1	4-10 3	1-45 4	13	1-90 9	1-120 12	1-100 10	1-840 84	11-340 3	41-480	4014
3/16	347	212	*		31	10	13	ı	1	3	
3/16	44	41	10	**	6	z	,				_
1/10	43	45	77 38	32	86 27	29 22	87 20	10	;	;	1
0	14	10	11	17	21	19	17	17	19	•	10
TABLE 111. (C	E1L144	100 FF	ETH.								
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3/16	18	10	2)	•	:	1	•	ı			
1/0	41	35	17	14	10	10	•	•		1	
0	"	17	7	17	i	•	:	ı	ŧ		1
TABLE IV. ICE	ILING I	(PQ) •									
					OURA	TION IN	MINUTES				
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1/4	50	14	•	,	3	3			ı		
1/0	26	14	•	14	16	•	•			ı	
0	3	10	11	11	12	10	11	11	10	i	1
TABLE V. (CEI	LING 10	O FEET	on zi	(RO) _							
					DURA	TION IN	MIMUTES 1-100 18				
VISIBILITY 3/8	1-15 (6-30 I	1-45	0	1-90 9	1-150 15	1-100 18	1-540 5	-1-340 3	41-480	401+
9/16	7		30		,						
3/10		+3	30	7		•	2	1		1	
	2.2	13		•	.,						
1/8	33	42	24 15		24	21 10	13	11	4	1	1
1/8	84	42	34	2.	24	21 10 10		11 4 11	n		
1/8 1/16 0	84 35 6	42 32 18	26 15 15	26 26 11	24 16 17	10	13	ıî		ì	i
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TOTAL TIME AT TABLE VII. 10 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	OR Bet S S S S S S S S S	02 10 10 10 10 10 10 10 10 10 10 10 10 10	26 15 15 15 15 15 15 15 1	61LITY 16-1LITY 16-1LITY 16-1LITY 16-1LITY 17-1LITY 17-1LITY 17-1LITY 17-1LITY 17-1LITY 17-1LITY 18-1LITY 18-1L	24 16 17 CLASSI OURAE 18 00 00 00 00 00 00 00 00 00 00 00 00 00	10 10 10 10 10 10 10 10 10 10 10 10 10 1	13	4 11 1-240 2: 40 40 40 40 40 40 40 40 40 40 40 40 40	11 11 13 13 13 13 13 13 13 13 13 13 13 1	61-480 61-480 61-480 61-480 22 2 2 2 2 2 2 3 4 6 6 6 6 6 6 6 6 6 6 6 6 6	481- 481- 481- 10 10 10 10 10 10 10 10 10 10

TABLE X							,	CRTLAND	, INTERN	ATIONAL							
ALL SEASO	NS							A	LL MOURS					JAKUARY	1956 -	D ECEMBE	R 1965
PREQUENCY	OF 00	CURREN	CE				•	E 14 MI									
CATEGORY 11 111A 111B/C 11 + 111	1-19 326 154 32 77 68	14-30 237 158 51 40	31-43 124 93 46 97	44-60 74 99 19 37 43	61-90 66 63 34 63	91-12C 21 37 27 47 47	121-180 26 36 33 76	101-240 11 22 17		361-440 1 3 12 49 23	401+ 1 10 49 20	1-90 927 923 198 404 393	91-ALL 64 116 133 322 233	1-ALL 891 639 331 726 386			
TOTAL TIM	E 14 E	ACH DA	MATIO	HOUR	S AND	ENTHS	*14	HE IN MI								PERCENTA	
CATESORY 11 111A 111B/C 11 + 111	1-18 59.2 27.9 6.4 14.7	10-30 88.2 60.2 7.05 33.8 39.1	70.7 59.3 30.5	40.2 32.2 30.4	81.3 76.4	39,9 66,2 67,3	121-180 60-4 91-3 79-0			8.4 33.2 84.6 313.8	481- 9-1 149-3 948-7 309-7	1-90 369.2 274.1 132.9 264.7 223.3	91-ALL 164-0 349-9 570-9 1595-9 1107-1	1-ALL 833-2 624-0 703-4 1860-6 1327-4		*1-ALL +19 -40 +68	1-ALL .01 .71 .80 2.12 1.51
AVERAGE T	IME IN	EACH	DURAT	ION NO	UTER .	AND TEN		E IN MI									
CATEGORY 11 111A 111B/C 11 + 111		16-30 22.3 22.8 24.3 22.9 23.1	30.1	55.4 52.5 55.2 55.1	73.9 74.8 75.2 75.4	102.7	192-2 192-2 197-1		241-340 305.3 294.9 298.4	362.0 398.6 424.0 421.0	540.0 639.9 731.6 705.4	1-40 24.8 31.4 40.1 39.1	01-all 153-0 181-0 257-6 207-4 283-0	2-ALL 38.9 58.6 127.5 139.9			

TOTAL DESERVATION HOURS

PORTLAND, INTERNATIONAL

NO WIND TABLES FOR THIS STATION

TABLE FIL	- 444	cesuti	1045.					TERNATIO							
PREQUENCY	of 000	-	ŧ		9700	- 1100			'CH HOURS	1)	YAUHAL	1756	- 0ECEMBE	1965	
CATEGORY		a-30 1	1-45				121-180		1785 241-360 1	41-480	481+		91-ALL	1-ALL	
1114	120	60	50 26	3 G	21 15	10	_ ;	2		1		310 173	10	173	
1116	19	23	10	12	1	6	• ;		1			73	;	11	
11 + 111	26 18	2 đ 9 2	55	16	22	7	15	1	2	;	1	115	32 10	147	
TOTAL TIM							•	•	•	•	•	10,	••		
-							11m	E IP HIN	UTES					i-all	
CATEGORY II	20.9	33.4	31.3	27.4	Z4.Z	15.9	10.0	10.0	241-360 1	7.7	481+	1-90	91-ALL 45.7	102.8	
111A 1116	3.9	10.2	4.9	14.7	18.2	17.9	21.0 9.2	4.7	4.3			01.2 43.6	45.5	63.9	
11tc 11 + 111	3.0	10.0	13.6	1.7	1.3	3.4	34.4	13.9		27.9		71.9	99.0	7.7	
iii	2.0	12.2	12.9	14.9	22.2	10.7	19.1	3.5	5,5	7.4	11.7	84,9	50.3	123.2	
AVERAGE T	146 [#	EYCH .	DUR 4 T I	04 MIN	UTES A	ND TENT		e in min							
CATEGORY					01-90	91-120	121-140	181-240	241-360		461+	1-90	91-ALL	1-ALL	
11 1114	10.4	22.4	90.2	52.0	72.9	103.0	143.0	212.3		460.0		26.5	192.4 136.4	33.4 37.7	
1116	12.3	26.6	41.2	57.5 57.5	76.1 76.0	104.5	156.0		259.0			35.4	132.7	46.8 52.7	
111	11.5	28.0 22.8 22.9	37.1	53.2	74.4	101.1	146.5	200.0	269.C 332.^	418.0	700.0	37.5	185.6	69.9	
•••	***	••••	20.0	21.0								• • • •		••••	
FREQUENCY	OF 00	CURREN	CE		1400	- 3100			ALOH KOT	31					
CATEGORY		10-30	31-45				121-180	E IN MIN 181-240	UTES 241-360	361-480	461+	1-90	91-ALL	1-411	
1114	24 16	30	15	•	5	;	3	1		1		83 33	11	*0	
1116	2	12	1	•	1	1	2	1	1 2	1	3	37	14	51 17	
11 + 111	3	15	10	5	•	9	11	4	5	•	15	39 29	44	63	
	-	-	-	-	-	-	••	•	•	•	,	.,		•••	
TOTAL TIM								E IN HIR		***					
CATEGORY II	3.8	10.5	9.3	5.1	9.5	5.4	8.0	3.5	241-360		481+	1-90	91-ALL 16-8	35.0	
111A 1116	1.7	7.6	3.4	3.7	4.0	5.2 7.7	14.7	7.1	+.6	7.3	32.2	19.7	30.4	93.0 87.5	
1116	1.0	3.3	0.4	4.2	1.3	10.3	14.2	3.1 10.1	10.1	7.0	201.0	21.4	72.4	71.1	
iii		3.4	4.7	2.4	4.6	1.7	26.9	14.2	26.7	43.3	120.5	17.4	233.2	251.0	
AVERAGE 1	11ME 11	-	QURAT	104 MIN	UTES !	AND TEN	7H\$								
CATEGORY		16-70	31-45	46-60	51-90	91-120	121-160	(E IN H1) 181-283	241-360	361-480	441+	1-40	-1-ALL	1-411	
III	10.0	21.1	37.1	50.5	74.4	104.0	199.3 147.2	207.0 229.0		300.0		27.6	144.3	36.7	
1116	11.6	18.7	38.1	54.8	72.5 77.0	115.9	133.0	184.0	287.0 303.0	439.0	643.0	31.9	272.9	102.9	
111	12.2		38.3		68.5	102.5	141.5	211.0	304.0	407.4	807.0	32.9	436.6	247.0	
•••			10.3	48.0		100.0	146,5	212.5	320.0	432.0	003.3	37.0	349.4	231.7	
PREQUEKC				**.0		- 0600	(32077	083ERVA	TION HOUR		103.3	37.0	340,4	231.7	
	Y OF O	13.88U3: 0E-61	4ÇE 31-45	46-60	2260	- 0600 91-120	(32677 TII	083ERVA1 14 MII 181-240	FIOH HOUR NUTES 241-360	(\$)	#03.3 ##1#	1-50	388.6 91-ALL	1-411	
FREQUENCY CATEGORY EI	Y OF 96	(JRRUS	ıç e	46-60	2260	- 0600 91-120 17	(32677 TII	083ERVA1	FIOH HOUR	(\$)					
FREQUENCY CATEGORY II IIIA IIIB	Y OF OG 1-15 176 89 41	13.88U3: 16-30 176 176 188 38	4ÇE 31-45 71 32 31	46-80 84 33 26	2260 61-90 48 41 24	- 0600 91-120 17 29	(32677 711 321-160 10 26 22	088ERVAT 18 14 MTI 181-240 8 27	FIOH HOUR HUTES 241-360 3 13	361-960	441-	1=10 465 297 160	91-ALL 48 93 70	1-ALL 513 380 230	
FREQUENC CATEGORY II IIIA IIIG IIIC III + 111	Y OF OC	16-30 126 126 82 38 6	4ÇE 31-45 71 32 31 7 65	46-60 64 33 26 7 36	2260 61-90 48 41 24 9	- 0600 91-120 17 29 19 9	(32677 711 121-160 10 26 22 7 35	089ERVAT FE 14 MTI 181-240 8 27 12 2	FIOR HOUR HUTES 241-360 3 13 11 6 31	381=860 1 3 4 2 33	*41* 1 2 2 30	1=10 465 297 160 34	91-ALL 48 93 70 30 240	1-ALL 513 380 230 64	
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PREQUENCE CATEGORY II IIIA IIIA IIIC III + III IIII TOTAL TI CATEGORY II IIIA IIII IIII	Y OF OG 1-15 176 41 5 46 41 HE [H 1-15 3c.7 16.7	10-30 126 126 126 126 126 138 147 54 16-30 16-30 18-0 18-0	31-45 71 52 31 7 65 52 URATIO 31-45 45.3 33.1 20.7	46-80 94 26 7 96 28 H HGURS 46-80 39.8 29.8 24.0	2260 61-90 48 41 24 56 44 56 45 61-90 60.2 51.1	- 0600 91-120 17 29 19 9 34 20 TEMTHS	(92677 771 121=160 19 28 22 27 35 46 11 121=180 47.3 53.6 517.0	089ERVA1 181-240 8 17 72 2 2 2 3 36 1H MI 181-240 27.9 57.8 42.4 27.7	FIDH HOUR HUTES 241-360 3 13 11 6 51 60 NUTES 241-360 14.7 64.6 53,7 24,4	301-060 1 3 4 2 33 25 361-480 6.4 20.3 28.1	401- 12- 22- 303- 13- 401- 9-1- 10-4- 10-1-	1-50 465 297 160 34 290 219 1-90 223.9 163.3 99.1	91-ALL 48 93 70 30 246 177 91-ALL 125.3 257.0 232.2	1-ALL 513 380 230 64 476 396	
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FREQUENC: CATEGORY 11 11 11 11 11 11 11 11 11	Y OF OI 1-15 176 89 40 41 1-15 30:7 8:2 10:7 8:2 10:5 11:3 11:3 11:3 12:4 13:4 14:4 15:4 16:7	10-30 120 120 120 120 120 120 120 120 120 12	31-45 71 72 31 77 65 92 20 21-45 93 93 41.6 33 93 93 93 93 93 93 93 93 93 93 93 93	46-00 se 32 32 32 32 32 32 32 32 32 32 32 32 32	22G0 a1-90 a8 41 24 49 56 60 62 21 11 11 71 75 77 ALC 61 90 61 90 77 77 77 77 77 77 77 77 77	- 0500 91-120 17 27 38 30 10-120 20 40.0 31-120 31-	(32077 711 121-180 24 25 27 35 46 1121-180 67,3 67,3 67,3 67,3 11-180 149,2 144,1 1-19,9 140,1 141,1 177-180 28 28	OBSERVA 18 14 MII 181-240 2.2 4.3 2.3 3.3 16 14 MII 181-240 2.7,9 57,8 42,4 2.7,9 101-240 2.09,3	FION: HOUR HUTES 241-360 13 13 13 13 13 40 NUTES 241-360 14.7 4.4 55,7 24.3 178-2 24.3 178-2 24.3 178-2 24.3 178-2 274-3 178-2	361=460 1 3 3 2 2 33 25 361=480 8.4 20.3 28.1 14.0 232.9 171.7	481- 481- 9-1 18 18 18 18 18 18 18 347-0 123-0 481- 548-6 552-0 557-0 579-3	1=10 405 207 1100 34 2219 1=20 2219 163.3 20.1 143.1 143.1 1=00 41.1 39.2	91-ALL 48 93 70 70 240 177 91-ALL 129.3 237.0 232.2 1170.5	1-ALL 513 380 496 396 1-ALL 349-1 527-4 1317-2 895-4 1-ALL 40-8 65-4 85-9 133-0 136-3	
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PREQUENC: CATEGORY	Y OF OV OF OV OF OVER 175 P. 176 P. 1	10-300 15	TO BE A SECOND S	46-00 92 26 7 7 36 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	2200 61-90 a8 41 49 56 61-90 61-90 61-90 75.2 76.2 78.4 77.2 78.4 77.3 77.2 77.3 77.3 77.3 77.3 77.3 77.3	- 0000 91-120 17 27 18 91-120 20 00 18 19 19 100 100 100 100 100 100 100 100 1	(32077 711 121-180 22-2 22-2 23-3 46 121-180 47-3 48-1 121-180 149-9 131-7 149-1 149	OBSERVA: 18 14 MII 181-240 2.2 2.3 3.3 3.1(E IH MII 181-240 2.7.9 2.7.9 1.11.8 42.4 2.1.1 2.11.8 42.1 2.10.3 2.00.	FION: HOUR HUTES 241-360 131 131 40 NUTES 241-360 14.7 6.6 57:7 274.3 178.7 274.3 178.7 274.3 178.7 274.3 178.7 274.3 178.7 274.3 2	361-860 1 3 3 3 3 3 2 5 3 3 2 5 3 3 2 7 3 3 3 2 7 3 3 3 2 8 1 3 3 3 2 9 2 1 3 3 3 3 1 4 5 0 3 3 3 4 2 2 0 3 3 3 4 2 2 0 3 3 3 4 2 2 0 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	481- 12 22 20 13 481- 9-1 18-	1-50 -655 297 190 1-90 221-9 221-9 221-9 261-1 1-90 26-1 33-0 33-0 33-0 33-0 33-0 33-0 33-0 33	91-ALL 48 93 90 90 90 177 91-ALL 125.3 227.2 1176.6 138.7 199.0 227.3 247.3 248.4 91-ALL 156.6 189.7 199.0 227.3 248.4 199.0 248.4 199.0 259.6 199.0 1	1-ALL 513 300 000 190 190 1-ALL 349-1 191-2 191-	575-24
PREQUENC: CATEGORY 11 11 11 11 11 11 11 11 11	Y OF OV 1-15 176 86 46 41 11-15 30:77 80:11 11-15 11-22 11-22 11-22 11-23	COURTE 16-300 170 170 170 170 170 170 170 170 170 1	31-45 71 72 72 72 73 73 75 75 76 75 95.3 81-43 9	46-00 92 92 93 93 93 94 94 95 95 95 95 95 95 95 95 95 95	2200 01-90 a8 41 41 56 61-90 60.2 5 AND 61-12 71.2 77.1 77.2 77.2 77.3 ALL 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90	- 0500 91-120 17 23 19 19 19 20 10 17 21 19 21 20 20 20 20 20 20 20 20 20 20 20 20 20	(32077 711 121-180 22-22-23 24-6 121-180 47-3 48-6 121-180 47-3 131-5 149-9 131-7 149-9 131-7 149-9 14	OBSERVA: 18 14 MII 181-240 2.2 2.3 3.3 (IE IH MII 181-240 2.7.9 3.7.4 2.1.4 2.1.1 2.1.8 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1.1 2.1 2	FION HOUR HUTES 241-360 131 131 31 40 NUTES 241-360 14.7 6.6 57,7 24.9 178.7 24.9 178.7 24.9 178.7 24.9 178.7 24.9 178.7 24.9 24.9 24.9 24.9 25.9 26.9 279.8 26.9 279.8	301-460 301	401- 1 2 2 20 13 3 401- 1 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.	1-50 -655 2977 1800 2319 2219 2219 2219 2611 1-900 2819 2811 3310 3300 272 4600 4600 4600 4600 4600 4600 4600 460	91-ALL 125.3 227.3 1176.6 756.6 183.7 199.0 227.3 109 442 222 231 107.8 109 109 109 109 109 109 109 109 109 109	1-ALL 513 380 496 396 1-ALL 349-1 141-5 329-4 191-9 191-9 191-9 191-1 40.8 65.4 85.9 133-0 1028 2028	575.24
PREQUENC: CATEGORY III III III III TOTAL TI CATEGORY III III AVERAGE CATEGORY III III PREQUENC CATEGORY III III III III CATEGORY III III III III III III III	Y OF OX	CURRES 10-300 92-93-93-94-94-95-95-95-95-95-95-95-95-95-95-95-95-95-	31-45 32 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	46-00 32 26 7 36 8 46-00 27 24-7 104 114-00 104 105 104 105 104 105 104 105 105 105 105 105 105 105 105	2200 61-90 61-90 60-22 95-6 60-22 95-6 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90 61-90	- 0000 91-120 17 219 18 19 19 20 20 20 20 20 20 20 20 20 20 20 20 20	(92077 711 121=180 121=180 22 27 755 46 121=180 45,38 46,38	OBSERVA: 101-240 101-240 170-240 101-240 277-8 277-8 111-80 101-240 201-8 20	FION HOUR HUTES 241-360 13 11 16 241-360 FOR PROPERTY AND PROPE	301-480 301	481- 12 23 30 13 481- 9.1 18.6 347.0 125.8 481- 548.6 955.0 905.9 979.8 481- 1 6 9 7 9 879.8	1-50 +655 2877 1600 348 2250 2219 1-400 2219 2219 171.4 143.1 1-900 288 99.2 222 44 41.1 39.2 24 41.1 42.1 43.1 44.1 44.1 44.1 44.1 44.1 44.1 44	91-ALL 48 93 70 92-40 129-32 129-32 1176-3 1176-3 129-32 127-32 127-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32	1-ALL 513 380 64-46 376 1-ALL 349-1 614-3 327-4 141-9 1347-9 897-4 141-9 135-3 1-ALL 65-4 85-4 85-4 85-4 13-6 13	975.24
FREQUENC: CATEGORY	Y OF OX	CURRES 10-300 92 92 92 94 47 47 47 47 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	31-45 31-45 31-45 31-45 31-45 45.3 31-45 41.6 33.7 31-45 31-	46-00 93 26 73 73 73 73 73 73 73 73 73 73	2200 61-90 61-90 61-90 60-22 53-4 61-90 771-22 774-2 775-3 ALL 61-90 92-4 104-1	- 0000 91-120 17 29 94 20 20 20 20 20 20 20 20 20 20 20 20 20	(32077 121-180 121-180 26 27 35 46 1121-180 67,3 67,3 67,3 67,3 1121-180 117,0 121-180 140,1 140,1 121-180 17,0 17,0 17,0 17,0 17,0 17,0 17,0 17,	OBSERVA: #8 14 MII 181-240 2.2 43.3 #8 18 MII 181-240 57.8 42.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 27.7 148.4 181-240	FION: HOUR HUTES 241-360 13 13 13 14 31 40 HUTES 241-360 27 14-7 4-6 57,7 27 4-6 57,7 27 4-7 27 27 27 27 27 27 27 27 27 27 27 27 27	301-480 301-480 301-480 6.4 20.3 20.3 20.1 14.0 20.3 20.1 14.0 20.3 20.1 14.0 20.3 20.1	481- 12 23 30 13 481- 9.1 18.6 347.0 125.8 481- 548.6 955.0 905.9 979.8 481- 1 6 9 7 9 81- 1 6 9 7 9 81- 1 7 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	1-90 221-9 1-90 221-9 1-90 221-9 1-90 221-9 1-90 221-9 1-90 221-9 1-90 28-9 31-2 28-9 4-1 1-90 28-9 31-2 28-9 1-90 28-9 28-9 28-9 28-9 28-9 28-9 28-9 28-9	91-ALL 48 93 70 92-40 129-32 129-32 1176-3 1176-3 129-32 127-32 127-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32 128-32	1-ALL 513 380 64-4-6 376 1-ALL 249-1 614-3 327-4 141-9 199-4 40.8 65-4 85-4 136-3 1-ALL 40.8 65-4 136-3 1-ALL 40.8 65-4 85-4 136-3 1-ALL 40.8 65-4 85-4 136-3 1-ALL 40.8 65-4 85-4 136-3 136-3	979.24
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CATEGORY 11 1116 1117 1117 1117 1117 1117 1118 1118	1-15 31 31 31 31 31 31 31 31 31 31 31 31 31	16-30 252 27 212 212 212 212 212 212 212 212 212	31-45 122 133 32 124 140 140 141 151 161 161 161 161 161 161 161 161 16	155 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	61-90 5 99 4 2 14 9 61 - 90 60 - 61 - 81 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91-120 7 7 91-120 12-0 110-12-0 12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 10-12-0 11-12-0 1	TIME 121-180 7 7 13 32 121-180 23-2 17-4 7.8 7-9 30-2 17-4 7.8 7-9 30-2 17-6 150-9 150-9 150-9 150-9 150-9 150-9 150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 170-150-9 150-9 150-9 150-9 150-9 150-9 150-9 150-9	18 1M FIP 181-240 2 2 1 1 8 18 1M MII 181-240 10.5 7.5 3.3 30.0 27.1 18 1M MII 181-240 20.0 20.0 20.1 20.1 20.1 20.1 20.1 20.	VETES 241-300 2 3 1 12 2 3 16 4: ES 2-1-300 4: 95 2-1-300 5: 4 NUTES 241-300 7 320.5 240-30 10 NUTES 241-300 7 310.7 310.7 320.7 3	301-460 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 1 17.6 9.3 481e 528.0 500.0 481e 1 1 1 3 3 3 3 1.2	88 8 67 724 7 7 61 5 7 7 61 7 7 61 7 7 61 7 7 61 7 7 7 61 7 7 7 7	17 18 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	105 35 36 13 126 82.7 82.7 82.7 82.7 82.1 82.7 91.1 47.2 28.6 169.5 1-ALL 193 136.7 114.8 1-ALL 193 184 194 195 195 195 195 195 195 195 195	120.
CATEGORY	1-15 31 31 31 31 31 31 31 31 31 31 31 31 31	16-30 25 2c 7 2 12 12 12 12 12 12 12 12 12 12 12 12 1	31-45 122 133 3 122 14 100 100 131-45 16.1 12.1 100 131-2 13	155 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61-90 5 aPD 61-90 61-90 61-90 61-90 71-90 71-90 71-1 61-90 71-1 61-90 71-1 61-90 71-1 61-90 71-1 61-90 71-1 61-90 6	91-120 7 91-120 120.0 120.0 120.0 120.0 120.0 100.0 100.0 100.0 100.0 110.0 100.0 110.	TIM 121-180 7 7 7 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	18 1M PID 181-240 1	WITES 201-300 2 3 3 12 12 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	301-460 1 1 10 2 301-480 6.7 69.3 13.7 301-480 402.0 401.3 415.3 410.0 R5) 301-480 1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	22 1 17,6 9.3 481. 528.0 500.0 481. 481. 481. 51.8 31.2	88 8 77 72 4 7 7 6 1 7 9 7 9 7 9 7 9 9 9 9 9 9 9 9 9 9 9 9	17 18 10 8 10 8 43 44 91-ALL 136.8 134.9 91-ALL 200.2 211.2 211.2 22 20 111 67.9 91-ALL 137.9 91-ALL 139.3 22.1 239.0 111 209.3 91-ALL 211.2	1-ALL 82-7 98-13 124 99-14 82-7 98-14 82-7 98-15 1-ALL 147-2 98-7-3 114-8 11-ALL 1195 114-8 11-ALL 122-3 109-15 156-4 122-3 109-15 156-4 178-4 1	120.

- 21 -

TABLE XIV	- TEM	PERATU	RE < 3:	3 DEGR	EES (F	PDR 1, WITH - 1300	71ANO, [N FOG, NO (2597) D	TERNATI: PRECIPI'	DNAL TATION, I	AMD WIND	C 9 KNO'	T\$. Y 1956 -	- 0656281	ER 1965	
FREQUENCY	OF 30	CURREN	CE			•		IN MIN						-	
CATEGORY II	1-15	15-10	31-45 4 10	48-60	61-90	1-120	121-100 1	51-240	241-340	361-480	481+	1-90	41-ALL	L-ALL 71	
TITA	14	i	3	7	•	<u> </u>	1	ĩ				19	2	54 21	
1116	•	i	•	1	į	i		1		1		36	ıi	47	
11 • 111 111	:	i	ï	7	;	;	i	1		1		11	11	42	
TOTAL TIM	# IN E	ACH DU	R4110H	HOURS	AND F	EHTHS	_								
CATEGORY	1-15			46-60	61-90	91-130	TIME 1 08:-151	i in nin		261-460	481+			1-ALL	
11 1114	2.5	5.0	11.2	0.Z	1.2	3.3		3.7				24.2	12.6	34.2	
1116	. 6	1.9	\$.0	1.0	\$.i	1.7	2.4	•••				14.4	4.1	10.0	
11 + 111	1.0	2.1	5.6 5.1	7.2	6.7	5.5	15.4	3,7				21.2	31.3	94.3	
		8.6			11.5							24.6	•	35.1	
AVERAGE T			-				TIME	IN AIN							
CATEGORY 11	1-13	25.0	37.4	54.7	74.0	91-120 97.9	131-160 1	214.0	241-160	361-440	481+	1-90	91-ALL 136.0	1-ALL 31-1	
1114 1116	10.6	21.3	37.3	54.7 57.6	73.0	106.6	143.0	419.0				30.3	122.0	30.0 53.8	
1116	11.9	19.0	30.3	53.6	43.5	110.0	145.7	219.0		395.0		97.5	110.0	69.6	
111	7.7	20.	38.5	34.5	76.6	113.3	174.0	214.0		343.0		41.7	128.5	50.2	
					1400	- 2100	(29224 (DESERVAT	ION HOUR	51					
PREQUENCY	DF OC	CURREN	CE					E IN M1M							
CATEGORY II	1-15	16-30	31-45	46-60	61-90	4 1-120	121-140			361-480	481+	1-90	41-ALL	1-ALL 12	
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							TIM	E IN HIN	UTES	841-444	481+	1-90	61 - 41 1	1-000	
CATEGORY	. 6	1.3	1.6		-1-40	*1-150			4-1-100	A# 1-483		3.9	91-ALL	3.9	
1114 1116	.7	1.1	3.2	2.7	1.1	2.0		3,8			.,	7.3	7.9	8.4 13.8	
1116	.2	1.2	. 5	1.0	1.3	1.4	2.1	3.7	3.6	6.6	34.2	1.8	23.5	26.7	
iii			.7	3.0	1.1		4,4	7.0	11.1		21.9	5.4	44.3	49.4	
TASETCE	71ME 11	HIAS I	DURATI	10N M1	1J7E5 /	IND TENT	THS								
CATEGORY				46-60	61-90	91-150	151-180 11m	8 IM MIN 181-240		361-460	4814	1-90	41-ALL	1-444	
11 1114	7.6	21.0	36.0	54.0				220,0				27.6	229.0	19.4	
1116	15.0	• • • • •	37.6	55.7	48.0 75.0	120.0	124.0		334.0		996.0	33.0	236.5 353.0	68.8 267.3	
11 + 111	13.5	23.0	45.0		68.0	115.0	120.5	221.0	353.0	394.0	084.3	36.1	410.5	233.0	
111														***	
			•1.0	54.0	48.0		131.9	209.0	333.0		454.9	34.2	332.5	213.2	
FREQUENC	Y 0F 04	CURRE		34.0		- 0600	132877	D8 SERY41	TON HOUS	15)	630.9	34.2	332.5	213.2	
			NÇE		1200		132877 11M	DOSERVAT	ION HOUF						
CATEGORY	1-15 29	16-30	HÇ₹ 31-45 12	••••0 14	2200 61-90	91-120 7	132877 121-180	DBSERVAT 2 IN MIP 181-240	ION HOUF STES 241-360	361-480	481+	1-90	91-ALL 17	1-ALL 101	
CATEGORY II IIIA IIIB	1-15	16-30 24 20 7	HÇE 31-49	**************************************	2200 61-90 5	91-120 7 6 5	(32877 71M 121-180 9 6 3	DBSERVAT 2 IN MIP 181-240 1 3	IION HOUF SUTES Z41-360 Z	361-490		1-90 84 67 24	91-ALL 17 17 14	1-ALL 101 84 38	
CATEGORY 11 111A 1118 111C 11 + 111	1-15 29 15 4	16-30 24 20 7 2	HCE 31-49 12 13 3	46-60 14 10 6 2	2200 61-90 5 9 4 2	91-120 7 6 5 2	132877 71M 121-180 9 6 3 3 3	DBSERVATE IN MIP 181-240 1 3 2 1	110N HQUE HUTES 241-360 2 3 1	361-480 1 1 16	481+	1-90 84 67 24 7	91-ALL 17 17 14 8	1-ALL 101 84 38 15	
CATEGORY 11 111A 1118 111C	1-15 29 15 4	16-30 24 20 7 2	31-45 12 13 3	**************************************	2200 61-90 5 9	91-120 7 6 5	132877 71M 121-180 9 6 3	DBSERVAT 2 IN MIP 181-240 1 3 2	IION HOUP HUTES 241-360 2 3	361-480	481+	1-90 84 67 24	91-ALL 17 17 16	1-ALL 101 84 38	
CATEGORY 11 111A 1118 111C 11 + 111	1-15 29 15 4 1	16-30 24 20 7 2 10	31-49 12 13 3 12	**************************************	2200 61-90 5 9 4 2 16	91-120 7 6 9 2 19	132877 TIM 121-180 9 6 3 3 12	DBSERVATE IN MIN 181-240 1 2 1 6 7	TION HQUE HUTES 241-360 2 2 1 13	361-480 1 1 16	481+	1-90 84 67 24 7	91-ALL 17 17 14 8	1-ALL 101 84 38 15	
CATEGORY II IIIA IIIA IIIC III + III III TOTAL TE CATEGORY	1-15 29 13 4 1 1 9 7	16-30 24 20 7 2 10 14 FACH D	31-45 12 13 3 12 14 14 UMATIO	+6-63 14 10 6 2 14 10 H HQUR	2200 01-90 5 9 4 2 10 9	91-120 7 6 9 2 19 11 FENTHS	132877 11M 121-180 9 6 3 3 12 8	085ERVAT 2 IN MIP 181-240 1 3 2 1 6 7	TION HQUE SUTES 241-360 2 3 1 13	361-680 1 1 16 2	481+	1-90 84 67 24 61 56	91-ALL 17 17 19 8 60 43	1-ALL 101 94 38 15 121 99	
CATEGORY II IIIA IIIB IIIC II + III III TOTAL TE CATEGORY II IIIA	1-15 29 15 4 1 0 9 ME IN 1 1-15 5:0 2.9	16-30 24 20 7 2 10 14 FACH D	31-45 12 13 3 12 14 URATID: 31-45 8.5	+6-60 14 10 6 2 14 10 H HOUR +6-60 12.9	2200 61-90 5 9 4 2 16 9 8 AND 1	91-120 7 6 9 2 19 31 FENTHS 91-120 12.0	132877 TIM 121-180 9 6 3 12 8 TIM 121-180 23-2	OBSERVAT 2 IN MIN 181-240 1 2 1 6 7 2 1 181-240 3.6 10.5	TION HOUSE SA1=360 E B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	361-480 1 16 2 361-480	481+	1-90 84 67 24 7 61 56	91-ALL 17 17 16 8 60 43 91-ALL 38.6 43.6	1-ALL 101 84 38 15 121 99	
CATEGORY 11 111A 1116 1117 11 + 311 111 TOTAL TE CATEGORY 11 111A 1118 1116	1-15 29 15 4 1 1 0 9 RE IN 1 1-15 5,0 2.9 1-0	16-30 24 20 7 2 10 14 FACH D 0,4 7.0 2.6	HCE 31-45 12 13 3 12 14 URATION 31-45 8.5 6.1 2.0	46-60 14 10 6 2 14 10 H HQUR 46-60 12.9 9.1	2200 61-90 5 9 4 2 16 9 8 ANO 1 61-90 6.6 10.6	91-120 7 6 5 2 19 11 12 12.0 12.0 12.0 7.2	132877 TIM 121-180 9 6 3 3 12 8 TIM 121-180 23-2 15-4 7-8	Desgrant 1	TION HOUF HUTES 241-360 2 3 1 13 14 14 14 16.2 3,3	361-480 1 16 2 361-480 6.7 6.7	481+ 2 1	1-90 84 67 24 56 1-90 42.3 37.3 15.9	91-ALL 17 17 14 8 60 43 91-ALL 38.6 43.6 46.8 27.3	1-ALL 101 84 38 15 121 99	
CATEGORY 1: 1:11A 1:156 1:17 + 3:12 1:17 TOTAL TE CATEGORY 1: 1:11A 1:11C 1:11	1-15 29 15 4 1 1 9 9 ME IN I 1-15 5,0 2.9 1-0	16-30 24 20 7 2 10 14 FACH D 16-30 9,4 7.6 2.6	NCE 31-49 12 13 3 12 14 URATION 31-49 8.5 8.1 2.0	+6-60 14 10 6 2 14 10 H HOUR 46-60 12.9 7.1 5.7 13.7	2200 61-90 59 4 2 16 9 8 AMO 01-90 60-90 10.0	91-120 7 6 9 2 19 11 FENTHS 91-120 12.0 9.2 3.0	132877 TIM 121-180 9 6 3 3 12 12 121-180 28-2 15-6 7-8 7-9 30-9	DBSERVAT IE IN MIN 181-240 2 1 6 7 IE IN MIN 181-240 3.6 10.5 7.9 3.3 27.4	110N HQUE 10TES 241-360 2 3 13 14 14 14 15 241-360 9.3 16.2 9.3 16.2 9.5	361-480 1 1 1 1 2 2 2 361-480	481+ 2 1	1-90 84 7 61 56 1-90 42.3 37.3 15.9 5.6	91-ALL 17 17 16 8 60 43 91-ALL 38.6 45.6 27.3 273.2	1-ALL 101 84 38 15 121 99 1-ALL 61.1 81.6 61.7 34.0 261.3	
CATEGORY 11 111A 111C 111C 11 + 111 CATEGORY 11 111A 111B 111C 11 + 111	1-15 29 15 4 1 1 0 9 Mg IN 1 1-15 5,0 2.9 1-9	16-30 24 20 7 2 10 14 FACH D 0,4 7.6 2.6 -7 3.6	NCE 31-45 12 13 3 12 14 URATION 31-45 8.5 6.1 2.0 7.5	46-60 14 10 6 2 14 10 N HOUR 46-60 12.9 9.1 5.7 1.7	2200 61-90 5 9 4 2 10 9 8 ANO 61-90 6.6 10.0 9.1 12.5 19.0	91-120 7 6 5 7 2 15 11 15 11-120 12.0 12.0 12.0 12.0 12.0	192877 7118 121-180 9 6 3 3 12 8 7118 121-180 23.2 15.4 7.4 7.4 7.9 30.7 20.7	Desgrant 1	TION HOUF HUTES 241-360 2 3 1 13 14 14 14 16.2 3,3	361-480 1 16 2 361-480 6.7 6.7	481+ 2 1	1-90 84 67 24 56 1-90 42.3 37.3 15.9	91-ALL 17 17 14 8 60 43 91-ALL 38.6 43.6 46.8 27.3	1-ALL 101 84 38 15 121 99	
CATEGORY 11 1118 1118 1117 111 + 111 111 TOTAL TI CATEGORY 11 1118 1110 1110 1111 AVERAGE	1-15 29 15 4 1 1 1 1 1-15 5 5 0 2 2 9 1-0 -2 1-9	16-30 24 20 7 2 10 16-16 16-30 9,4 7,6 2.6 .7 3.8 4.9	NCE 31-65 12 13 3 12 14 URATION 31-65 8.5 8.1 2.0 7.5 8.8	46-60 14 10 6 2 14 10 N HOUR 46-60 12.9 1.1 5.7 1.7 13.3	2200 61-90 5 9 4 2 10 9 8 AMO 01-90 0.0 10.0 3.1 2.5 19.0 10.5	91-120 7 6 9 2 15 11 15 12.0 12.0 12.0 12.0 12.0 12.0	192877 71M 121-180 9 6 3 3 12 8 121-180 23.2 15.4 7.4 20.7 745	DBSERYAT 2 IN MID 181-240 1 3 2 1 6 7 IF IN MID 181-240 10.5 7 7.5 27.6 20.0	110N HQUF HUTES 241-360 2 3 1 13 14 12 241-360 0.3 16.2 9.3 16.2 9.3 16.2 9.3 16.2 9.3 16.2 9.3 17.3 18.2 19.3 19.	361-480 1 1 16 2 361-480 6.7 6.7 6.3 13.7	2 1 401+	1-90 84 67 24 7 61 56 1-90 42.3 37.3 15.9 5.4	91-ALL 17 17 16 8 00 43 91-ALL 18.8 45.8 27.3 29\$-2 192.7	1-ALL 101 84 38 15 121 99 1-ALL 61:1 61:0 73:1 34:0 188:1	
CATEGORY 11 111A 111C 111C 11 + 111 CATEGORY 11 111A 111B 111C 11 + 111	1-15 29 15 4 1 1 9 9 9 1-15 5,0 2 1-9 1-9 1-9 TIME II	16-30 24 20 7 10 16-10 9,6 7,6 2,6 4,9 4,9 4 EACH	NCE 31-45 12 13 3 12 14 URATION 31-45 8-8 8-8 BURAT 31-45 42.3	46-60 14 10 6 2 14 10 H HOUR 46-60 12.9 9.1 1.7 13.3 9.3 10H MII 46-80 55.1	2200 61-90 9 4 2 16 9 5 ANO 10.0 5.10.0 9.11.2.5 10.0 10.0 10.0 79.4	91-120 7 6 9 2 15 11 12.0 12.0 12.0 12.0 17.8 19.6 AND TEN	192877 71M 121-180 9 6 3 3 12 8 71M 121-180 23.2 15.4 7.8 7.9 30.7 7M5 71M1 121-180 139.4	DBSERYATI 2 IN HIP 181-240 1 3 2 1 8 7 IF IN HIP 181-240 3.6 10.5 7.7 27.6 24.0	201-360 241-360 2 3 1 13 14 12-360 40725 241-360 40745 40745 241-360	361-480 1 1 16 2 361-480 6.7 6.7 6.3 13.7	481+ 2 1	1-90 84 67 24 7 61 76 1-90 42.3 37.3 15.9 5.6 46.1 35.4	91-ALL 177 16 8 00 43 91-ALL 38.4 45.6 27.3 275.2 192.7	1-ALL 101 84 38 15 121 99 1-ALL 61:1 61:1 61:2 24:3 180:1	
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CATEGORY 11 1116 1117 1117 1117 1117 1117 1117	1-15 29 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	16-30 240 270 200 772 100 10-30	31-65 12 13 12 12 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	46-60 12.9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	2200 01-90 9 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	91-120 7 6 9 12 13 14 15 16 17 18 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10	192877 7180 9 9 6 9 7 7 180 9 9 12 9 7 180 121-180 23.2 121-180 134.7 155.0 137.2 139.4 139.4 121-180	Desgrant I IM MIP 181-240 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TION HQUE HUTES 241-360 2 3 13 13 13 14 13 15 14 13 16 2 27 15 16 17 241-360 27 16 17 241-360 27 17 28 16 17 28 16 17 28 16 18 28 17 18 HUTES 24 1-360 27 18 HUTES 24 1-360	361-480 1 16 2 361-480 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	481. 2 1 401. 17.6 9.3 481. 528.0 900.0 481. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-90 84 67 76 1-90 42.3 35.4 46.1 35.4 46.1 1-90 30.2 33.4 35.7 46.2 46.1 100 100 100 100 100 100 100 1	91-ALL 13.6 60 63.6	1-ALL 101 84 38 121 79 1-aLL 81-1 81-1 81-1 81-1 81-1 1-ALL 184 1-2 77 130-0 114-0 1-ALL 184 1-2 77 2 23 130-0 114-0 1-ALL 184 1-2 77 2 23 130-0 129-0	715.00
CATEGORY 11 1116 1117 1118 1119 1117 1111 1111 1111 1111	1-15 29 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16-30 240 72 100 10 16-30 10 10-30 1	21-65 12 13 3 1-65 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6	46-600 113-9 93-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	2200 61-90 95 44 60 60 60 60 60 60 60 60 60	91-120 77 6 5 2 2 15 11 11 12-0.0 12-0.0 12-0.0 12-0.0 12-0.0 10-0.2 10-0.2 10-0.3 10-0.5 10-0.	192877 1180 9 6 3 12 121-180 9 6 3 12 23-2 121-180 23-2 121-180 139-9 130-9 20.7 745 121-180 139-7 139	Desgrata 2 IM MID 181-240 181-240 2 1 1 1 1 1 2 2 0 1 1 1 2 2 0 1 1 1 2 2 0 1 1 1 2 2 0 1 1 1 1	TION HOUSE AUTES 241-360 2 3 1 13 4 4 40725 241-360 279-5 324-360 279-5 241-360 279-5 31-1 11 11 11 11 11 11 11 11	361-480 1 1 1 2 2 361-480 6.7 6.7 6.3 13-7 361-480 401.5 415.5 410.0 R5) 361-480 6.7 6.7 82.5 2 13.7 361-480	481. 2 1 401. 17.6 9.3 481. 528.0 900.0 481. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-90 84 67 71 61 75 64 1-90 42.3 35.4 35.4 35.4 35.4 1-90 11	91-ALL 177 198 60 60 63 8 91-ALL 188 64 65 66 65 67 72 192 77 192 192 192 192 192 192 192 192 192 192	1-ALL 101 84 38 121 99 1-ALL 61:1 61:4 61:7 34:0 1-ALL 48:2 130:0 1130:0 114:0 1-ALL 184 102 123 139 119 1-ALL 184 102 7 7 130:0 1-ALL 184 102 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	115.00
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FORTIAND, INTERNATIONAL TABLE XV - If $^{\mu}$ PDRTIAND, INTERNATIONAL AND WIND 9	-12 KM0	ots.		
PREQUENCY OF OCCURRENCE	RAUMAL	Y 1956 -	DECRHSI	ER 1965
TIRE IN NIMULES CATEGORY 1-15 16-30 31-45 46-60 61-90 91-120 121-180 161-240 261-380 361-480 II 2 III 1 III 1 III 1	481+	1-90 2 1	91-ALL	1-ALL 2 1
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1116 111 - 111 - 3 - 6 111 - 2		:		::
AYPRAGE TIME IM BACH DURATION HINLTES AND TENTHS TIME IN HINUTES				
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1116 18.0 39.0 111 12.0		25.3		25.5 12.0
FREQUENCY OF OCCURRENCE				
THE IN MINUTES CATECORY 1-15 10-30 31-45 40-00 01-90 91-120 121-180 181-240 241-300 361-480 11 1 111A	401+	1-90 1	91-4 LL	1-ALL
1116 1117 11 • 111 1		1		1
TOTAL TIME IN EACH DURATION HOURS AND TENTHS TIME IN MINUTES				
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III 11 .2		.2		.2
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS TIME IN MINUTES				
CATEGORY 1-15 16-30 31-45 46-60 61-90 91-120 121-180 181-240 241-360 361-480 II 12.0 III	481+	1-40	*1-ALL	1-411
1116		12.0		12.0
FREQUENCY OF OCCURRENCE				
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1116 1116 11 + 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 2		3 2
TOTAL TIME IN EACH DURATION HOURS AND TENTHS				
TIME IN MINUTES CATEGORY 1-15 10-30 31-45 46-60 61-90 91-120 121-180 181-240 241-360 361-480	441+	1+90	91-466	1-ALL
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111C 11 + 111 15.0 22.0 62.0		32.0		33.0
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11		1.3	2.9	1.0	5.0	3.4						10.6	3,4	13.9
VERAGE TI Ategory								# IN MIN	UTES 241-340	361-480	461+	1-90	91-4LL	1-411
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116 [[2 [•]]]	10.1	29.0 22.5	36.0	59.5	79.0 60.6	110.0	130.0					34.2 45.7 30.9	110.0	96.8 61.8 92.7
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1	. •	16-30 1-5	31-45	46-60	61-90	91-120	TIM 121-190 2.1	3.0	UTES 241+360	361-480	46 1•	1.90	91-ALL 9.0	1-ALL 13.5
1 114 118	1-15 .9 1.0	16-30	31-45	46-60 2.5 2.6	1.0	3.4	121-160	181-240	UTES 241+360	361-480	481•	4.5 6.7 5.1	9.0 6.7 1.6	13.5 15.4 7.0
I 114 115 110 I + 111	1.0	16-30 1.5 1.6 .4	31-65 2.1 2.6 .5	2.5 2.6 1.0	1.0 1.2 1.3 4.9	1.6 1.7 1.7	2.0 12.3	181-240 3.6 6.7 3.0	UTES 241+360	361-480	46 1•	4.5 6.7 5.1 2.2 13.1	9.0 6.7 1.6 3.0 33.2	13.5 15.4 7.0 5.7 46.3
114 114 115 11 + 111	-1	16-30 1.5 1.6 .4	31-45 2-1 2-4 -5 2-0 1-1	2.5 2.6 1.0 4.6 5.3	1.0 1.2 1.3 4.9 2.6	1.6 1.7 1.7	2.0 12.3 0.3	181-240 3.6 6.7	241+360		461+	4.5 6.7 5.1 2.2	9.0 6.7 1.6 3.0	13.5 15.4 7.0 5.7
I IIA IIIA IIIC II + III III IIII IIII I	1.0 -1 -4 1#8 1#	16-30 1.5 1.8 .4 1.5 1.3 4 EACH	31-65 2-1 2-6 -5 2-0 1-1 SUR4T:	46-60 2.5 2.6 1.0 4.6 5.5	61-90 1.0 1.2 1.3 4.9 2.6	3.4 1.6 1.7 1.7 1.8 AND YEN	121-160 2.1 2.0 12.3 4.3 7H5 TIM 121-180	181-240 3.0 6.7 3.0 6.7 18 IN MIN 181-240	241+360 4,0	12.2	481 •	4.5 6.7 5.1 2.2 13.1 11.0	9.0 6.7 1.6 3.8 33.2 17.8	13.5 15.4 7.0 5.7 46.3 20.7
I IIA IIA IIA IIIA III III + III II IVERAGE T ATEGORY II	1.0 -1 -4 1#8 1H	16-30 1.5 1.8 .4 1.5 1.3 4 EACH 16-30 22.0 21.8	31-65 2-1 2-6 -5 2-0 1-1 CURAT: 31-45 41-7 36-5	46-60 2.5 2.8 1.0 4.6 5.5 IDN MII 46-60	61-90 1.0 1.2 1.3 4.9 2.0 NUTES B1-90	3.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5	121-160 2.1 2.0 12.3 4.3	181-240 3.0 4.7 3.0 4.7	241+360 4,0	12.2		4.5 6.7 5.1 2.2 13.1 11.0	9.0 6.7 1.6 3.8 17.8 91-ALL 135.5 200.0	13.5 15.4 7.0 5.7 46.3 20.7
I IIA IIA IIA IIC II + III II VERAGE T ATEGORY I IIA IIO	1-0 -1 -4 1#8 1h 1-35 7.9 11.4	16-30 1.5 1.8 .4 1.5 1.3 4 EACH 16-30 22.0 21.8 22.0	31-45 2-1 2-4 -5 2-0 1-1 5UR4T! 31-45 41-7 36-5 32-0	46-60 2.5 2.6 1.0 4.6 5.5 IDN MI 46-60 49-7 56-3 59-0	61-90 1.0 1.2 1.3 4.9 2.8 9JTES 61-90 74.0 80.0	9.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5 98.0	121-180 2.0 12.3 6.3 7H5 121-180 125.0	181-240 3.6 6.7 3.0 6.7 18 IN MIN 181-240 216.0 200.0	241+360 4,0 WTE\$ 241-360	12.2 361-460		1-90 17-1 29-1 13-1 11-0	9.0 6.7 1.6 3.8 33.2 17.8 91-ALL 135.5 200.0 98.0 112.0	13.5 15.4 7.0 5.7 46.2 20.7
I IIA IIA IIA IIC II + III II VERAGE T ATEGORY I IIA IIO	1-0 -1 -4 1#8 1h 1-35 7.9 11.4	16-30 1.5 1.8 .4 1.5 1.3 4 EACH 16-30 22.0 21.8 22.0	31-45 2-1 2-4 -5 2-0 1-1 5UR4T! 31-45 41-7 36-5 32-0	46-60 2.5 2.6 1.0 4.6 5.5 IDN MI 46-60 49-7 56-3 59-0	1.0 1.2 1.3 4.9 2.6 NJTES D1-90 42.0 74.0 80.0 74.0	9.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.3 98.0	121-160 2.1 2.0 12.3 4.3 7HS 121-180 125.0 126.0 139.8	181-240 3.0 6.7 3.0 6.7 3.0 6.7 181-240 218.0 200.0	241-360 4.0 EUTE\$ 241-360	12.2 361-460 364.9		4.5 6.7 5.1 2.2 13.1 11.0 1-90 19.1 29.1 90.7	9.0 6.7 1.6 3.8 93.2 17.8 91-ALL 135.5 200.0 98.0	13.5 15.4 7.0 5.7 46.3 28.7 1-ALL 43.0 46.2 60.1
I IA IIA IIA IIA IIC I • III II AVERAGE T AVEGORY IIIA III IIC II • III	1.0 -1 -4 1#8 1h 1-35 7.9 11.4	16-30 1.8 1.8 .4 1.3 1.3 4 EACH 16-30 22.0 21.8 22.0	31-45 2-1 2-4 -5 2-0 1-1 5UR4T; 31-45 41-7 36-5 32.0 39.7 32.0	46-60 2.5 2.6 1.0 4.6 5.5 IDN MI 46-60 49-7 56-3 59-0	61-90 1.0 1.2 1.3 4.9 2.8 9JTES 61-90 74.0 80.0	9.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5 98.0	121-160 2.0 12.3 6.3 7HS 121-180 125.0 127.0 146.0 139.8 (87672	181-240 3.6 6.7 3.0 6.7 3.0 6.7 181-240 210.0 200.0 085ERVAL	241-360 4,0 8UTES 241-360 241.0	12.2 361-460 364.9		1-90 1-90 1-90 1-90 1-90 1-90 1-90	9.0 6.7 1.6 3.8 33.2 17.8 91-ALL 135.5 200.0 98.0 112.0	13.5 15.4 7.0 5.7 46.3 28.7 1-ALL 45.0 46.2 60.1 84.8
I IIA IIIA IIIA IIIC II + III III IIIA IIIC IIIA IIIC IIIC IIIC I	1.0 -1 -4 1mE 1m 1-35 -7.9 11.4 -6.0 10.5	16-30 1-5 1-8 -4 1-3 1-3 1-3 16-4 16-30 22.0 21.8 22.5 19.5	31-45 2-1 2-4 -5 2-0 1-1 5UR4T! 31-45 41-7 36-5 32-0 39-7 32-0	46-60 2.5 2.6 1.0 4.6 5.5 10N MI 46-60 49.7 36.3 59.0 54.6	61=90 1.0 1.2 1.3 4.9 2.8 9JTES D1=90 62.0 74.0 80.0 74.0	3.4 1.6 1.7 1.7 1.8 AND YEW 91-120 101.5 98.0 104.0 99.0	121-160 2.0 12.3 6.3 7HS 121-180 125.0 127.0 146.0 139.8 (87672	181-240 3.0 6.7 3.0 6.7 3.0 6.7 181-240 210.0 200.0 08587VAI	241-360 4.0 4.0 8UTES 241-360 241.0	12.2 361-460 364.9		1-90 1-90 19-1 29-1 19-1 29-1 40-1 41-1	9.0 6.7 1.6 3.8 93.2 17.0 91.4 1.1 200.0 98.0 112.0 199.1 152.3	13.5 15.4 7.0 5.7 46.3 28.7 1-ALL 45.0 40.2 60.1 84.8 102.8 75.0
I IIA IIIA IIIA IIIC II + III III IVERAGE T ATEGORY I IIA III III III III III III III III	1.0 -1 -4 1#E 1h 1-15 7.9 11.4 6.0 10.5	16-30 1.5 1.6 .4 1.3 1.3 7 EACH 16-30 22.0 21.8 22.0 21.9 19.3	31-45 2-1 2-4 -5 2-0 1-1 31-45 41-7 36-5 32-0 39-7 32-0 NCE 31-45	40-60 2.5 2.6 1.0 4.6 5.5 5.5 IEN MI' 46-60 49-7 50-3 59-8	61-90 1.0 1.2 1.2 4.9 2.6 80-0 74.0 80-0 74.0 83.0 ALL	3.4 1.6 1.7 1.7 1.8 AHD TEN 91-120 101.5 98.0 107.0	121-190 2.0 12.3 2.3 7.3 7.3 121-190 125.0 128.0 129.8 (87672 121-180 1 121-180	181-240 9.0 9.0 9.0 9.0 9.0 9.0 9.0 181-240 210-0 200-0 182.0 200-0 0958RVAII 8E IN MIN	241-360 4.0 4.0 8UTES 241-360 241.0	12.2 361-460 364.9	481+	1-90 1-90 1-90 1-90 1-90 1-90 1-90 1-90	91-ALL 135.5 200.0 94.0 112-0 195.1 201.0 94.0 112-0 195.1 152.3	13.5 15.4 7.00 5.7 46.3 28.7 1-ALL 46.2 60.1 164.8 102.8 75.0
	1 -0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	16-30 1.5 1.8 .4 1.3 1.3 1.3 1.3 1.3 1.3 1.3 22.0 22.0 22.5 19.5	31-45 2-1 2-6 -5 2-0 1-3 50F4T; 31-45 32-0 39-7 32-0 NCE 31-45 8	40-60 2.5 2.6 1.0 40-5 5.5 IDN MI 40-60 49.7 59.0 54.6 94.8	61-90 1.0 1.2 1.3 4.9 2.8 9J7ES 81-90 60.0 74.0 83.0 4LL 61-90	3.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5 98.0 107.0 91-120 2 1	121-190 2.0 12.3 9.3 7MS 121-190 125.0 126.0 127.0 128.0 129.0 190.0 190.0 190.0 190.0 190.0 190.0 190.0	181-240 6,7 3.0 6,7 3.0 6,7 181-240 210.0 200.0 182.0 200.0 0BSERVAI 181-240 1 2	241-360 4.0 4.0 8UTES 241-360 241.0	12.2 361-460 364.9	481+ 1	1-90 1-90 1-90 1-90 1-90 1-90 1-90 1-90	9.0 6.7 1.6 3.9 9.3 9.2 17.6 91~ALL 135.5 200.0 94.0 112.0 199.1 152.3	13.5 15.4 15.7 46.2 28.7 1-ALL 45.0 46.2 60.1 84.6 102.8 75.0
I IIA IIA IIB IIC II + III II IVERAGE T ATEGORY IIIA III IIF IIIA III III III III III I	1-0 -1 -4 -4 -1+5 -7-9 -11-4 -6-0 -10-5 -05 -10-1 -15 -10 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	16-30 1-5 1-8 1-5 1-3 22-0 21-8 22-5 19-3 10-30 10-30 11-3 11-3 17-8	31-45 2-1 2-4 -5 2-0 1-1 5UR4T1 31-45 41-7 36-5 32-0 39-7 32-0 MCE 31-45 8	40-60 2.5 2.8 1.0 4.6 5.5 10N MI 46-60 49-7 50-3 50-3 50-3 50-3 50-3 50-3 50-3 50-3	01-90 1.0 1.2 1.3 4.9 2.0 92.0 74.0 60.0 74.0 83.0 44.6	3.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5 98.0 107.0 91-120 2 11 2 2 3	121-190 2.0 12.3 745 121-180 125.0 146.0 129.8 (87672 121-160 1	181-240 6.7 3.0 6.7 3.0 6.7 18 IN MIN 181-240 210.0 200.0 182.0 200.0 08587VAI 8E IN MIN 181-240 1	241-360 4.0 HUTES 241-360 241-0 FION HOU! HUTES 241-360	22.2 361-480 364.5 RS) 361-480	481+	1-90 1-90 1-90 19-1 29-1 19-1 29-1 1-90 40-1 41-1	9.0 0.7 1.6 2.0 23.2 17.6 91-ALL 135.5 200.0 94.0 199.1 152.3	13.5 15.4 7.00 5.7 46.2 28.7 1-ALL 45.0 40.2 60.1 84.8 102.8 75.0
I IIA IIA IIA IIA IIIA IIIC III III III IIIA IIIA		16-30 1.5 1.6 1.3 1.3 1 EACH 16-30 22.0 22.5 19.3 10-30 11 13 17 7 8	31-45 2-1 2-4 -5 2-0 1-1 31-45 31-45 31-45 URATION	40-60 2.5 2.8 1.00 4.00 4.00 49-7 50-3 59-3 40-60 14 49-7 94-8	01-90 1.0 1.2 1.3 4.9 4.9 5.0 62.0 74.0 80.0 74.0 80.0 1 4 4 1 9 0	3.4 1.6 1.7 1.7 1.8 AMD TEN 91-120 101.5 98.0 107.0 91-120 2 1 2 1 2 1 2 7	121-190 2.0 2.0 12.3 0.3 7H5 121-180 125.0 128.0 129.0 139.8 (87672 121-180 177 771 121-180	181-240 9.0 6.7 9.0 6.7 9.0 6.7 18 IK HIN 181-240 200.0 182.0 200.0 085874AI 12 2 1 2 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	241-360 4.0 4.0 8UTES 241-360 241-0 100 HOU! 8UTES 241-360	12.2 301-460 304.5 RS) 301-400	481+ 1	1-90 1-90 1-90 1-90 19-1 129-1 190-7 66-0 40-1 41-1 1-90 42 35 14 5 37 34	9-0 0.7 1.6 3.8 93.2 17.6 91-ALL 135.5 200.0 112.0 112.0 1152.3	13.5 15.4 7.0 7.7 46.2 28.7 1-ALL 45.0 40.2 60.1 84.8 10.8 75.0
I IIA IIIA IIIA IIIC IIIC IIIC IIIC IIIC	-1 -4 -4 -4 -1 -5 -7 -9 -1 -6 -0 -1 -5 -7 -9 -1 -6 -0 -1 -1 -5 -7 -9 -1 -1 -6 -0 -1 -1 -5 -7 -9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	16-30 1-5 1-6 1-5 1-3 1-3 1 EACH 16-30 22.0 22.1 10-3 10 11 17 7 8 8 14-30 10 11 13 13 14-30 10 11 15 16-30 17 17 18-30	31-45 2-1-1 2-4 -5 2-0 1-1 31-45 32-0 39-7 32-0 39-7 31-45 5-2 9 9 9 9 1 1 1 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	40-60 2.5 2.6 1.0 3.5 3.5 3.5 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	01-90 1.0 1.2 1.3 4.9 2.8 01-90 62.0 74.0 80.0 1 4 1 1 6 5 5 AND 01-90 1-0 1-0 1-0 1-0 1-0 1-0 1-0 1-0 1-0 1-	3.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5 98.0 107.0 91-120 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 3 4 4 4 4 5 7 8 9 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	121-190 2.1 2.0 12.3 12.3 12.3 12.1 121-180 122.0 129.8 (87672 121-180 1 1 7 6	181-240 6.7 3.0 6.7 3.0 6.7 181-240 200.0 182.0 200.0 08587VAI 8E 1H MIP 12 2	241-360 4.0 4.0 8UTES 241-360 241-0 100 HOU! 8UTES 241-360	12.2 301-460 304.5 RS) 301-400	461+	1-90 1-90 1-90 1-90 1-90 1-90 1-90 1-90	91-ALL 91-ALL 135.5 200.0 98.0 112.0 199.1 152.3	13.5 15.4 7.0 7.0 7.0 7.0 46.2 8.7 1-ALL 84.8 10 85.0 10 84.8 10 85.1 44 1-ALL 22.7
I IIA IIIA IIIA IIIC III III III IIIC IIII III IIIA IIIA	-1 -4 -4 -4 -1 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	10-30 1.5 1.0 1.5 1.3 1.3 4 EACH 10-30 22.0 22.1 10-3 10 10 10 10 10 10 10 10 10 10 10 10 10	31-45 2-1-1 2-4 -5 2-0 1-1 31-45 41-7 34-5 39-7 32-0 9 9 1 1 1 1 2 1-4 4 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	40-60 2.5 2.6 1.0 4.6 5.5 5.5 100 MII 46-60 59.0 39.8 48-60 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	01-90 1.0 1.2 1.3 1.3 2.8 2.8 01-90 62.0 60.0 74.0 60.0 11 11 11 90 5 AND 01-90 1.0 6.3 1.3	3.4 1.6 1.7 1.7 1.8 AND TEN 91-120 101.5 98.0 107.0 91-120 91-120 1 2 1 2 1 2 3 7ENTHS	121-190 2.0 12.0 12.9 12.9 12.1-180 122.0 146.0 119.8 (87672 TIM 121-180 1 7 1 7 1 121-180 1 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	181-240 8.0 6.7 3.0 6.7 3.0 6.7 181-240 200.0 182.0 200.0 0858RVAI 1 2 1 2 1 2 1 2 1 2 1 6 6.7	241-360 4.0 RUTES 241-360 241-0 RUTES 241-360	301-400 304.9 301-400 2	461+	1-90 19-91 1-90 1-90 1-90 1-90 1-90 1-90	91-ALL 91-ALL 135.5 200.0 98.0 112.0 199.1 152.3	13.5 15.4 7.0 7.0 7.0 46.2 28.7 1-ALL 46.2 60.1 80.2 80.7 9.0 1-ALL 46.3 81.4 46.2 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4
I IIA IIIA IIIA IIIA IIIC III III III VERRAGE T AVEGORY III III REQUENCY ATECORY IIII III OTAL TIM ATECORY IIII III III III III III III III III		10-30 1.5 1.8 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	31-65 2.1 2.4	40-60 2,5 2,6 1,0 4,0 4,0 4,0 5,0 6,0 7 8,0 8,0 8,0 8,0 8,0 8,0 8,0 8,0 8,0 8,0	01-90 1.0 1.2 1.3 1.9 2.0 2.0 62.0 60.0 60.0 60.0 60.0 60.0 6	91-120 107-0 107-0 107-0 101-5 98-0 107-0 107-0 91-120 107-0 91-120 107-0 91-120 107-0 107-0 91-120 107-0 10	121-160 2.0 12.3 4.3 THS 121-160 125.0 122.0 146.0 119.8 (87672 121-160 2.1 7 7 7 7 7 7 121-160 2.1	181-240 3.0 6.7 3.0 6.7 3.0 18 IK HIN 181-240 200.0 182.0 200.0 182.0 200.0 182.	241-360 4.0 4.0 8UTES 241-360 241-0 100 HOU! 8UTES 241-360	12.2 301-460 304.5 RS) 301-400	481+ 1 1 1 461+	1-90 1-90 1-90 19-1 29-1 50-7 66-0 40-1 41-1 1-90 18-2 15-5 11-6	9-0 0.7 1.6 2.0 93-2 17.6 91-ALL 135.5 90-0 199-1 152.3 91-ALL 9-1 91-ALL 9-1 91-ALL 9-1 91-ALL 9-1 91-ALL 9-1 9-1 9-1 9-1 9-1 9-1 9-1 9-1	12.5 15.4 15.7 5.7 46.2 28.7 1-ALL 60.1 64.8 10.8 38 10.3 38 31.4 44 1-ALL 22.7 15.1
ATEGORY I I I A I I I I I I I I I I I I I I I	-1 + 2 - 1 + 2	10-30 1.5 1.8 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.7 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	31-65 2-1 1 2-6 4 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7	40-60 2.5 2.6 6.1 0.0 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	01-90 1.0 1.2 1.3 4.9 4.9 4.9 4.9 6.7 74.0 83.0 61-90 61-90 61-90 6.8 6.1 61-7 7.7	3.4 1.6 1.7 1.7 1.7 1.8 4HD TEN 91-120 101.5 91-200 107.0 91-200 2 1 1 2 1 2 1 2 1 3 3 3 3 3 1 4 3 1 3 1 3 3 3 4 3 3 4 3 3 3 3	121-160 2.0 12.3 4.3 THS TEM 121-180 125.0 127.0 128.0 1	181-240 8.0 6.7 3.0 8.1-240 200.0 182.0 200.0 0958874Al 181-240 12 2 1 2 1 2 1 2 1 2 3 4 5 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	241-360 4.0 241-360 241-360 241-360 100000000000000000000000000000000000	12.2 301-40 364.5 351-40 2 301-40 12.2	481+ 1 1 1 1 1 1 1 1 1 1 1 1 1	1-90 11-90 19-11 11-0 19-11 11-0 19-11 11-0 19-11 11-0 1-90 40-1 11-90 1	91-ALL 91-ALL 135.3 200.0 91-2 117.8 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL 91-ALL	13.12 15.4 7.0 5.7 46.2 28.7 1-44.4 45.0 60.1 40.2 60.1 40.2 775.0 1-44.4 40.3 102.4 40.3 102.4 102.4 102.4 103.0 103.4 103.0 104.4 105.0
ILLIA		16-30 1.5 1.8 1.8 1.9 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	31-65 2.1 1 2.4 4 5 2.0 1.1 2.4 4 5 2.0 2.0 0.1 2.1 2.4 4 7 32.0 2.0 2.0 2.0 2.0 2.0 0.0 0.0 2.1 2.0 2.0 0.0 0.0 0.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	40-60 2.5 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	61-90 1.0 1.2 1.3 4.9 2.8 2.9 4.9 62.0 74.0 61-90	3.4 1.6 1.7 1.7 1.7 1.8 4ND TEN 91-120 101.5 94.0 107.0 91-220 1 1 2 2 1 2 2 1 1 2 3 3 7 1-120 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	121-190 2.0 12.3 2.0 12.3 7HS TIM 121-190 125.0 128.0 128.0 128.0 129.8 (87672 121-180 121-180 2.1 2.1 2.0 1.0 9.3 7HS TIM 121-180 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	181-240 8.0 6.7 3.0 8.1 181-240 200.0 182.0 200.0 085ERVAN 181-240 1 2 2 2 3 1 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4	241-360 4.0 241-360 241-360 241-360 100000000000000000000000000000000000	12.2 301-40 364.5 351-40 2 301-40 12.2	481+ 1 1 481+	1-90 1-90	91-ALL 125.5 200.0 112.0 1152.3 91-ALL 2 3 3 14 10 91-ALL 5 2 2 3 3 14 10 91-ALL 5 91.7	13:4 7.0 5.7 46.2 28.7 124.6 124.7 102.8 75.0 144.0 102.8 114.0 122.2 23.7 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19
THE STATE OF THE S		10-30 1.5 1.8 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	31-65 2-1 2-8 -5 2-1 2-8 -5 2-1 2-8 2-9 2-9 31-8 31-8 32-9 32-0 32-0 32-0 32-0 32-0 32-0 32-0 32-0	40-602 2.5 2.6 1.00 4.6 3.5 10N MI 46-80 49.7 59.0 59.0 59.0 60.0 70.0 70.0 70.0 70.0 70.0 70.0 70	61-90 1.0 1.2 1.3 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	3.4 1.6 1.7 1.7 1.7 1.8 8AND TEN TEN 101.0 91-120 101.0 94.0 107.0 91-120 2 1 2 2 3 3 4 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	121-180 2.0 12.3 2.3 12.3 12.1-180 122.0 122.0 128.0 121-180 121-180 121-180 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	181-240 3.0 4.7 3.0 5.7 3.0 181-240 210.0 200.0 182.0 200.0 182.0 200.0 182.0 200.0 182.0 200.0 182.0 200.0 182.0 200.0	241-360 4.0 241-360 241-360 241-360 100000000000000000000000000000000000	12.2 301-40 364.5 351-40 2 301-40 12.2	481+ 1 1 1 1 1 1 1 1 1 1 1 1 1	1-90 1-90 1-90 19-11 111-0 19-11 19-	91-ALL 135.3 2.0 91-2 11.0 135.5 91-3 12.0 12.0 12.0 12.0 13.3 14.1 10 91-4 10 91-3 10 91-3 10 91-3 10 91-3 10 91-3 10 91-3 10 91-3 10 91-3 91-3 91-3 91-3 91-3 91-3 91-3 91-3	13.2 15.4 7.0 15.4 7.

-	1 . Tr		118.5	29 DEG		POA	TLAND, IN	TERNATIO	0N4L	4H0 #150	e 9 KHC	118.			
REQUENCY	OF QC				0700	- 1100	(25971 0	BSERVAT	IOM MONE	\$)	HANNARY	1970	- DECEMBE	A 1965	
ATEGDAY				46-60	61-90	91-123	121-190 1	! IN MIN .81-240		361-480	461+	1-90	91-444	1-411	
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1110		2		2	2	1						ć	1	;	
111	2	Ĩ	1	2	•	i	ŧ					15	3 2	17	
TOTAL TIME	- E IN 8	ACH BU	BATION		AND T	FHTMS									
ATEGG'							T1HE	IN STM		361-480	481+	1-00	91-ALL	1-411	
1114	2.0	1.5	3.1	1.0	00	1.3						0.6 7.1	1.5	8.4	
8111		1.0	3.0	1.0	2.2							5.4	1.0	9.7	
11 16 11 • 111	1.0			1.0	3.3	1.4	4.4					9.0	4.6	11.0	
111	.•	1.3	2.4	1.0	3.0	3,4						10.1	3.5	13.4	
LVERAGE TI							TIME	IN #IN							
ATEGORY	1-15	22.0	31-45	46-60	61-40	91-120	121-180 1	61-240	241-360	361-460	481+	1-90	#1-TFF	1-ALL 10.1	
IIIA IIIO	12.0	21.0	36.2	39.5		¥1.0						25-1	41.0	28.7	
i i i č	10.2	21.0	36.0	33.5	79.0	110.0	130.0					45.7 30.0	132.0	55.1	
111	11.5	20.0	36.0	39.0	74.5	100.5	174.0					40.3	100.5	47.4	
					1400	- 2100	(29224 (BSERVAT	10H 40VR	\$)					
REQUENCY							TIM	IN PIN	UTES						
ATEGORY	1-15	16-30 1	31-45	48-60	61-90	41-120	121-180	81-240	241-340	361-460	4614	1-90	91-ALL	1-ALL	
1114 1116	1	ī										1		1	
1116	•	1	ı	1 2							1	ż	1	į	
111			1	i							i	į	i	;	
TOTAL TIME	E IN 6	ACH DL	RATION	HOURS	AND T	ENTHS									
ATEGORY							TIA1	! IM MIN 181-240	UTES 241-360	301-480	401+	1-90	91-ALL	1-411	
II.	.1											. 5	-	. 3	
1118	.3	.,	_									. 3		. 3	
11C 1 + 111		. 4		2.0							10.7	2.4	10.7	11.4	
11			٠.	1-0							10.6	1.4	10.6	12.2	
VERAGE T	INE IN	EACH	DURATI	OH MIN	OTES A	HC TENT	IKS Timi	! IN SIN	UTES						
ATECONY	1-15	25.0	31-45	46-80	61-40	91-120	121-180	61-240	241-360	361-489	401+	1-00	+1-ALL	1-411	
ITA		12.0										22.0		22.0	
1110	15.0		34.0	60.0							590,0	15.0 47.0	500.0	19.0	
[[+]]] []]		25.0	34.0	60.0							644.0	48.3	644.0	197.3	
					2200	- 0600	(32877 (SERVAT	104 HOUR	(5)					
PREQUENCY	OF 00	CURREN	IÇ E					IN NIN							
CAFEGURY II	1-15		31-45	46+60	61-90	91-120 Z	121-180			361-460	481+	1-90	91-ALL	1-ALL 17	
1114	5	3		3	1		•	i				10	ż	20	
1118 1110		1	1	1	i	1	1					2	1 2	7	
11 • 111	1 2	3	3		2	1	5	1 2	1	2		16	10	26 23	
 Total 7141	-		_	-	-	_	•	-				••			
							114	IN HIN	UTFS	141	481+	1-90	41-ALL	1-411	
CATEGORY II	. 9	1.1	2.1			91-120 3.4	121-160	3.6	1-100	A41-423		4.1	9.0	13.2	
1114 1118	1.0	1.4	2.4	2.5	1.0	1.6		6,7				5.1	1.0	7.0	
111¢ 11 + 111	.1	1.2	2.0	1.0	1.3	1,7	12.3	3.0	4.0	12.2		12.7	33.2	9.7 45.9	
111	; •	1.3	1.1	5.5	2.0	1.4	9.3	6.7				11.0	17.8	28.7	
AVERAGE T	1ME 1M	EACH	DURATI	104 MI	1UTES A	HD TEN	THS								
CATEGORY	1-15			46-66	61-90	91-120	121-100	E IN HIN 181-740	241-360	361-480	481+	1-90	+1-ALL	1-ALL	
:: :::14	7.9 11.4	22.3	41.7	49.7	● Z.0	101.9	129.0	214.0				19.0	135.5	46.4	
1118		22.0	32.0	56.3	74.0	98.C	128.0					50.7	98.0	60.1	
11 • 111	10.5	23.0	39.7	94.6	74.0	99.0	146.0	102.0	241.0	384.5		47.7	199.1	105.9	
	10.3	14.3	32.0	34.4		. 47.0						41.1	194.8	19.0	
					ALL				TON HOU	(2)					
111		CURRE	iç E			91+120	121-180	£ IN HIN 181-240	UTE\$	301-480	481+	1-90	91-ALL	1-411	
III FREQUENCY	DF 00		-	46-60	41-90		121-100	1				37	4	41	
III FREQUENCY Category II	0F 00	16-30 #	31-45	46-60		2	•					74			
FREQUENCY Category II IIIA IIIB	OF 90	16-30 8 11 3	31-45 8 8	;	1	1 2		2			_	1.	3	16	
FREQUENCY CATEGORY II ILIA ILIB ILIC ILIC LIC ILIC ILIC ILIC ILIC	0F 00	16-30 11 3 1	31-45 8 1 1	\$ 2	1 4 1	1 5	1 7	1	1	2	1	33	14	\6 8 47	
FREQUENCY CATEGORY II IIIA IIIB IIIIC III + III	0F 00 1-15 21 10 1	16-30 11 3 1	31-45 8 1 1	3 2 9	1 4 1 8 6	2 1 2 3	1		1	ż		5	ī	16	
FREQUENCY CATEGORY ILLIA LILLA	0F 00 1-15 21 10 1	16-30 11 3 1	31-45 8 1 1	3 2 9	1 4 1 8 6	2 1 2 3	17	1 2		2		33	14	\6 8 47	
FREQUENCY CATEGORY III IIII IIII IIII IIII TOTAL TIM	0F 00 1-15 21 10 1 7 4 E IN 6	16-30 8 11 3 1 5 8 (ACH DI	31-49 8 1 1 1 4 7 URATIO	t HOUR	1 1 8 6	2 1 2 1 2 3 5 1ENTHS 91-120	1 7 4 714 121-180	1 2 8 14 KTH 181-240	iutes			5 33 33	14 10	\6 8 47 43	
FREQUENCY CATEGORY II IIIA IIIIC IIIIC IIIIC IIIT TOTAL TIM CATEGORY IIIIA	OF 00 1-15 21 10 1 7 4 E [N (16-30 8 11 3 1 5 6 ACH Di 18-30 3.1	31-49 8 1 1 1 7 7 7 7 7 7 31-49 5-2 4-8	4 5 2 9 8 40-60 3.5	1 8 6 8 AND 1 61-90	Z 1 2 1 2 3 7 41-120 3.4 1.9	1 7 4 7180 121-180 2.1	1 2 8 14 KTH	iutes		i	1-40 11.3 15.0	3 14 10 9.0 8.2	1-ALL 20.3 23-2	11
FREQUENCY CATEGORY II IIIA IIIB IIII IIII IIII III III CATEGORY II	0F 00 1-15 21 10 1 7 4 E IN 6	16-30 8 11 3 1 3 1 5 6 (ACH DI 18-30 3.1 3.9	31-49 8 1 1 4 7 7 9RATIO	4 HOUR:	1 8 6 8 AND 1 61-90 1.0	Z 1 2 1 2 3 7 41-120 3.4 1.9	1 7 4 7180 121-180 2.1	1 2 E 1N RTN 181-240 3.6	iutes		481.	1-90 11.3 15.0	3 14 10 41-ALL 9.0 8.2 9.3	1-ALL 20.3 23-2 10.0	1/
FREQUENCY CATEGORY II III III III III TOTAL TIM CATEGORY III IIIA IIIA IIII IIIA IIII IIII	0F 00 1-15 21 10 1 7 4 E IN E 1-15 3-1 2-0 3	16-30 8 11 3 1 9 8 8 8 8 8 8 16-30 3.1 3.9 1.3 .5	31-49 8 1 1 1 4 7 2 9-2 4-8 9-2 4-8	4 + 5 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 4 1 8 6 8 AND 1 61-90 1.0 4.8 1.3	2 1 2 1 2 3 5 91-120 3.4 1.9 9.4	1 7 4 4 121-180 2-1 7.0 16.9	1 2 E 1N KIN 181-240 3.6 6.7	iutes		481.	1-90 11-3 11-0 11-0 11-0 24-1	\$ 14 10 41-ALL 9.0 8.2 9.3 11.6	1-ALL 20-3 29-2 10-0 15-1 74-7	1
FREQUENCY CATEGORY II III III III III III TOTAL TIM CATEGORY III IIIA	OF 90 1-15 21 10 1 7 4 E IN 6 1-15 3-1 2-0 3	16-30 8 11 3 1 5 6 (ACH D) 16-30 3.1 3.9 1.9 2.6	31-45 8 1 1 4 7 9-45 5-2 4.8 .0 2.0	46-60 3.5 4.8 2.9	1 4 1 8 6 6 8 AND 1 61-90 1.00 4.8 1.3 10.2 7.7	Z 1 2 1 2 3 4 91-120 3,4 1,6 3,7 5,1	1 7 4 121-180 2-1 2-0 16-9 9-3	1 2 E IN KIN 181-240 3.6 6.7	UTES 241-360	361-480	481.	1-90 11.3 15.0 11.6	#1-ALL 9.0 8.2 5.3	1-ALL 20.3 23-2 10.0	1
FREQUENCY CATEGORY II III IIII IIII IIII IIII III TOTAL TIM CATEGORY II IIII IIII IIII IIII IIII AVERAGE T	OF 00 1-15 21 10 10 1 7 4 E IN 6 1-15 3-1 2-0 -3 1-1 -7	16-30 8 11 3 1 3 1 5 8 8 1ACH DI 16-30 3.1 3.9 1.9 2.0	31-45 8 1 1 4 7 7 7 7 7 9-2 4-8 9-2 4-8 0 2-6 4-0	4 HOURS 46-60 3.5 4.8 2.9 7.5	1 4 1 8 6 6 5 AND 1 61-90 1.0 4.8 1.3 10.2 7.7	Z 1 2 1 2 3 3 41-120 3.9 9.4 1.9 9.5 1.1	1 7 4	1 2 10 KIN 181-240 3.6 4.7 3.0 4.7	UTES 241-360 4.0	361-480	481e 481e 10.7	1-90 11-3 15-0 11-0 4-5 24-1 22-6	\$1-ALL 9.0 8.2 5.3 11.6 50.5 31.7	1-ALL 20.3 29.2 19.0 15-1 74.7 94.3	1
FREQUENCY CATEGORY II III III III III III TOTAL TIM CATEGORY III IIIA	OF OC 1-15 21 10 1 7 4 6 1-15 3-1 2-0 3 1-1 7 7 1-15 11-15	16-30 8 11 3 1 5 8 8 8 8 8 10-30 1.9 2.0 8 8 8 8 1.9 1.9 2.0 8	31-45 8 8 1 1 4 7 7 91-65 5-2 4-8 -5 2-6 2-6 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0	4 HOURS 4 HOURS 46-60 3.5 4.8 2.9 7.3 7.3 104 MI	1 4 1 8 6 6 5 AND 1 61-90 1.0 4.8 1.3 10.2 7.7	2 1 2 1 2 3 4 91-120 3.4 1.9 9.7 5.1	1 7 4 TIM 121-180 2-1 7.0 16.9 9.3 THS TIM 121-180	1 2 10 KIN 181-240 3.6 4.7 3.0 4.7	UTES 241-360 4.0	361-480	481.	1-90 11-3 15-0 11-0 4-5 24-1 22-6	91-ALL 9.0 8.2 5.3 11.6 50.5 31.7	1-ALL 20.3 23.2 10.0 174.7 54.3	1
FREQUENCY CATEGORY II IIIA IIIA IIII TOTAL TIM CATEGORY II IIII TOTAL TIM CATEGORY II IIIA IIIA IIIA IIIA CATEGORY II IIC II + III CATEGORY II IIC II + III CATEGORY II IIIA	OF OC 1-15 21 10 1 7 4 6 1-15 2-1 1-15 1-15 12-10 12-1	10-30 8 11 3 1 5 8 8 10-30 3.1 1.3 2.0 6 EACM 16-20 22.0	31-45 8 1 1 4 7 7 9-25 4.8 .5 .0 2.6 4.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 HOURS 46-60 3.5 4.8 2.9 7.5 104 HI 46-60	1 4 1 8 6 6 5 AND 1 1-90 1.0 4.8 1.3 10.2 7.7 7. HUTES 4 61-90 62.0	Z 1 2 1 2 3 7 1-120 3.4 1.9 1.8 3.7 5.1 140 TEM 91-120 101.9	1 7 4 121-180 2.1 2.0 16.9 9.3 THS 1181121-180 125.0	1 2 E IN RIN 181-240 3.6 6.7 3.0 6.7 8 IN HIP 191-240	UTES 241-360 4.0	361-480	481e 481e 10.7	1-90 11-3 15-0 11-0 4-5 24-1 22-6	91-ALL 9.0 8.2 5.3 11.6 50.5 31.7	1-ALL 20.3 23.2 10.0 15.1 74.7 54.3	1:
FREQUENCY CATEGORY II IIIA IIIA IIIT IIIT IIIT III IIII I	OF OC 1-15 21 10 1 7 4 6 1-15 2-1 1-15 1-15 12-10 12-1	10-30 8 11 3 1 5 8 8 (ACH Di 10-30 3.1 3.9 1.9 2.0 6 EACH 16-20 22.0	31-45 8 8 1 1 4 7 7 91-65 5-2 4-8 -5 2-6 2-6 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0 9-0	4 HOUR: 46-60 3.5 4.8 2.0 8.3 7.5 104 HI: 46-60 52.3 97.6	1 4 1 8 6 5 ANO 1 01-90 1.0 4.8 1.3 1C.2 7.7 HUTES / 61-90 62.0 71.5 79.5 79.5	Z 1 2 1 2 1 2 1 2 1 2 3 3 3 3 3 3 3 3 3 1 3 1	1 7 4 7 114 121-180 2.1 7.0 16.9 9.3 THS 114 121-180 125.0 128.0	1 2 E IN RING 181-240 3.0 6.7 3.0 6.7 191-240 214.0	UTES 241-360 4.0	361-480	481e 481e 10.7	1-90 11-3 19-0 11-0 4-3 24-1 22-6	91-ALL 9.0 8.2 9.3 11.6 50.5 31.7	1-ALL 20-3 29-2 10-0 15-1 74-7 94-3	10

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PORTLAND, INTERNATIONAL
TABLE XVIII - TENMERATURE C 29 DEGREES (P), WITH PDG, NO PRECIPITATION, AND WIND 9-12 RHOTS.
JANUARY 1956 - DECEMBER 1965

NO OCCURRENCE OF DATA

ABLE KIX REQUENCY				Z VEUR	0700	- 1300	(25571	081ER VAT	10M MOUR	15)	JANUAR	Y 1956	- 085848	ER 1965
				44-40	A1 - B0	*1-120	71M 121-180	6 IN FIN		201-440	481+	1-90	#1-ALL	1-411
ATEGORY I I I A	1-13 94 97	16-30 74 32	31-43 35 17	21	21 21 10	¥1-120	121-180	101-140 1	1-300	1	4014	245	13	250 193
1 B	17	10	7	10	•	1	ş	_				80	1	128
• 111	17	25	14	12	11	11	12	i	ì	i	ì	22	16	100
TAL TIP.							TIM 121-180	0 IN MIN	UT 05 241=34A	941-480	481+	1-90	91-ALL	1-ALL
L TA	14.8	27.7	22.0	17.4	24.0	10.3	9.8	7.0		7.7		109.8	91-4LL 34.7 32.3	144.5
1 1 8 1 1 C	3.3	0.5	2.0	**;	7.7	•.7 1.6	3.6	•••				34.2	12.5	46.6
116 1 • 111 11	4.4	11.0	10.0	10.	21.6	18.1	27,0 16,2	10.3	13.1	15.2	11.5 11.7	***	73.7 72.3	152.5
VERAGE T	 1 1 1 1 1 1 1 1 1		DURATI	ON MIN	utes 4	LHD TEN	'H\$	e in Mih						
ATEGORY I	1-15	16-30	31-45 37.7	46-60 53.3	61-90	*1-120 103.3	121-160	200.0	241-540	961-485 460.0	+81+	1-90	91-ALL 140.3	1-444
114	10.8	22.7	39.0	52.1 57.9	71.2	110.3	196.3	101.0				26.6	138.4	16.2
110 110 1 • 111	15.0	25.7 27.0 23.6	\$1.4 39.7 37.6	33.0	70.7	98.0	134.3	209.3	201.0	454.5	690.0	36.5	179.9	93.1 73.2
ir	10.4	23.3	39.4	93.6	71.9	100.6	184.0	210.0	237,0	445.0	700.0	34,+	196.6	60.8
REGUE ICY	GF 00	CURREN	ic t		1400	- 2100		OBSERVAT E im mim	IDN HOU! UTES	(5)				
ATEGORY I	1-15	16-30	31-45 12	44-00 6	81-90 B	91-120 5	121-180			361-460	481+	1-90	91-ALL	1-466
ETA E16	15	16	6	;	3	3	•		2	1	z	29	•	58 38
11¢ 1 • 111	2	10	1	,	1	1	1	1	1	1	3	35	3	14 71
JI Qtal tim	5 8 IN 8	9 46H BU	7 401144	2 HDURS	ANO 1	I Jutusi	•	1	,	•	•	5.0	27	**
ATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-160	# IN MIN 1#1-2+0		361-483	4814	1-90	+1-ALL	1-ALL
I 114	2.4	0.7	7.5 3.9	3.1	7.5	5.4	12.4	1.5		6.3		33.5	16.8	90.3
116 116	1.3	*.4	2.0	2.9	3,7 1,3	1.0	2.5	3.1	1.3	7.3	32.2	2.2	94.1	30.2
11 + 111	1.0	3.5	3.6	1.8	4.6	3.3	12.2	14.8	13.6	42.9	120.5	17.3	231.8	252.7 187.4
VERAGE T							114	IN RIN	UTFS					
ATEGORY I	10.2	21.0	37.3	50.5	71.3	106.3	121-180	181-240 207,0	241-940		481+	1-90 29-1	91-ALL 144.B	1-ALL 39.7
[]A []B	11.1	22.3	38,7	54.3 57.3	75.7	104,0	140.2		270,5	499.0	644.0	30.9	161.7	47.1
iič 1 • 111	12.2	18.7 21.2 22.3	32.0 37.6 30.9	52.7	79.0 68.5 82.2	100.0	198.9 148.4 147.0	184.0 222.3 214.0	362.0 311.3	464.0 404.2 428.8	803.2 815.5	22.1 35.6 37.1	405.7 306.3 378.0	241.3
		-				- 0600			TON HOUS	-	44743			
REQUENCY				48.40			TIM	e in #18	UTES		441-	1-90	4 1 - 4 · ·	10411
ATEGORY I	1-17	100	\$1-45 40	46-60 37 31	61-90 42 33	91-120 12	121-100 11	181-340	241-340 1	701-480 1	481.	1-90 393 243	91-ALL 30	1-ALL 423 312
114 118 110	40	84 34 5	29	31	23	19	21 10	10			1	243 147 32	96 24	203
1 + 111	30 34	31	57 43	38 26	53	39	51 43	32 29	3 ⁷ 23	21 10	23 10	224 146	199	423 331
OTAL TIM	•	-	-		-			_		• • •	••		•	•-•
ATEGORY	1-15	16-30	31-45	48-60	61-90	91-120	121-160	E IN MEN 181-240	241-360	361-460	481+	1-90	91-ALL	1-411
I I I A	14.0	20.1	25.7	33.7	52.2	29.7	26.4	11.4	44.4	7.0	9.1	137.4	76.9 201.9	353.5
116 110	• • •	2.1	19.4	4.3	11.6	34.2	43.3	39.1 24.2	24.0	7.2	10.0	25.1	167.9	259.2
1 + 111	6.5	17.7	36.8 26.2	23.3	67.0 90.0	\$0.0	128.7	101.2	179.0	146.9	267.3	100.0	563.4	709.5
YERAGE T							TIM	e in air						
ATEGORY	10.5	22.0	97,4	94.6	74.5	103.3	121-140	201.5	209.5	392.3	481+	1-90	133.8	1-ALL 37.6
11A 118	12.0	24.7	38.5 40.1	54.6	75.1	106.8	155.3	265.3	295.7	421.0	348.0 569.0	33.7	190.8	70.6
11¢	13.3	23.0	41.2 30,8	32.4	75.8	108.7	144.3	207.4	287.7 291.4	432.0	565.0	46.9	269.5	121.9
11	11.4	24.4	39.4	53.6	75.1 4LL	105.7	150.1	209.4	300.8 110N MOU	419.1	578.2	40.5	241.4	128.6
REQUENCY							T14	E IN 818	NUTES					
ATEGGRY	262	503	107	64	71	21	121-180	181-249	241-360	2	+01+	707	91-ALL 50	1-ALL 797
11A 110	136	193	#2 #0	16	49	27	31 24	17 11	:	2	1	426	73	513 312
110	•9	73	1 Z 0 Z	9.7	11 75	7 51	88	37	47		33	352	267	74 619
II Otal tim	54 8 7 N 4	00 10 = 141	**	42	56	29 Tem7us	54	35	27	25	17	274	144	***
OTAL TIM Ategory							7 [F	E IN MTH	UTES 241-360	361-480	401+	1-90	91-ALL	1-411
i I I A	46.0	76.1	39,9	50.1	65.6 61.1	36.4	44.6	29.9	44.4	14.0		332.6	128.5	464.9
116	13.0	26.7	29.7	32.0	42.1	40.9	50.4	38.4	30.1	21.7	41.0	140.5	236.3	361.7
iii iii	12.2	27.9 32.0	32.5	31.9 37.6	70.1	80.0 51.1	163.7	24.0 137.4 111.9	224.1	204.5	399.3	237.5	1221.7	1459.2
VERAGE T							THS							
ATEGORY	1-15	18-10	31-45	48-85	61-90	91-120	121-180	181-240	241-380	301-480	401+	1-90	+1-ALL	1-444
i:a	10.5	22.5	37.5	54.5	72.4	104.0	140.5	204.4	209.5	421.0	348.0	28.2	154.2	30.5
	12.0	23.9	40.1	36.4	76.5	104.4	140,0	209.6	286.8	434.3	619.0 614.4 729.9	35.3	195.8	73.4
118 110 1 • 111	11.0	23.4	•0.•	92.8	74.5	104.4	144.4	211.4	291.2	429.0	014.1	40.5	274.5	141.4

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IA IB IC - III I TAL TIMI TEGORY IA IC - III I TRAGE T TEGORY		20 1 26	14	12			3	2				229	11	
+ III TAL TIMI TEGORY IA IB IC - III TRAGE T TEGORY	26 19 E 14 E		•	- ';	10	•	1	1				191	1.	145
TEGORY IA IB IC IC IT TEGORY		27	14 11	13	16 12	13	10 6	5	1	i	1	•1 •2); 10	122
IA IB IC III FRAGE TEGORY	1-15							e in hin						
IS IC • III I PRAGE T TEGORY	10.1	27.0	19.9	16.7	14.7	10.3	121-180 7.4	1.0	241-340	361-480	461+	1-90	*1-ALL 24.7 32.3	1-411
• III I Prage † Tegory	3.7	10.0	4.2	10.5	11.7	(17	10.2	3.0				33.0	12-5	45.4
FRAGE T	5.0 3.3	10.3	2.0 0.7 7.3	7.9 11.7	19.7	1.6 21.3 10.7	24.1	10.3	13,1	7.5	11.5	91.3	1.6 87.6 92.1	199.1
TEGORY					•			•.,	4.,	,		41.2	74.1	*****
							714 121-160	E IM MIN 161-240	UTES 241-360	361-480	**1*	1-90	91-ALL	1-ALL
14	10.8	22.5	37.4	53.6 52.5	69.5 71.2	103.3	148.0	161.0			•	26.2	134.7	\$1.0
1 a 1 C	12.4	25.7	41.7 39.6	97.7 53.0	76.5	100.5	174.9					33.5	125.2	41.9 51.5
+ III 1	10.3	23.4	37.1	52.9 54.0	73.8 72.0	106.7	144.5	203.3	261.0	449.0	490.0 700.0	33.9	109.6	40.7
.					1400	- 2100	129224	GESERVAT	I M HQUE	(S)				
EQUENCY TEGORY					A1 - B0	W1 = 1 * 0	T1H	E IN RIN	UT#\$	\$61e44e	461+	1-90	91-444	1-466
TEGURT IA	20	23	11	40-00	5	3	121-100	***-140		1	1-	65	41-466	71
16 16	, ,	15	3	ž	2	1	•	1	1	1 1	2	24	•	37 12
;; III	į	15	* 7	7	;	•	3	ģ	į	3	Ť	35 27	34 27	69 34
TAL TIM	E IN 6	ACH DI	HAT I DN	_	-	-		_		•		•	•	
TEGORY	1-15	16-30	31-49	46-60	61-90	91-120	121-180	E IN MIN 181-240		361-480	481+	1-90	91-ALL	1-444
IA	2.3	4.2 4.2	3.2	5.1	7.6	3.4	10.2			6.3		27.4	13.4	43.0
18	1.7	• • •	2.0	2.0	1.3	1.0	*·1 2.6	3.4 3.4 10.7	3.1	7,3	21.0	13.0	43.9	37.3
+ 111 I	1.0	3.6	4,5	1.0	9.0 6.9	3.3	22.0	7.2	39.9 20.6	\$3.5 41.9	90.2 36.4	17.1	200.9	168.7
ERAGE T	1 ME - 11	4 EACH	DURATE	ON MI	NUTES A	NO TENT	THS	IF IN RIS	017 64					
TEGORY	1-15	16-30	31-45	46-60	61-99	91-120 102.5	121-140	181-240	241-300	361-480	481+	1-90	91-ALL 135.7	1-ALL 56.3
14	9.9	21.9	38.6	35.4	73.0	104.5	138.0	204.0	271.0	360.0 439.0	453.0	29.5	168.6	46.9 92.9
116	12.2	10.7	36.3	52.7	79.3	100.0	135.5	204.0	308.0	460.0	652.8	20.9	383.1	230.6
1	10.	21.4	34.6	53.0		98.9	140,7	214.0	308.3	419.2	449.5	18.0	336.9	167.4
EQUENCY	OF 0	CURRE	NC E		\$500	- 0600		DOSERVAT		R\$)				
TEGORY	1-15	16-30	31-45	40-60	61-90		121-180	# IN MIN 181-240	241+360	361-480	481+	1-90	91-411	1-411
I.	147	103	54 41	36 33	*1	14 18	11	17	1	1		301 248	30 62	310
16	39	33	11	20	24	16	10		9	1	3	147	36 23	203
	34 33	37 43	46	43 28	*1	36 27	50 31	34	23	22 17	16	228 193	163	425 336
TAL TIR	E IN	EACH D	4C 1 7 4 SL	HOUR	AND 1	[ENTHS	•	4E 19 ALI	411 78 *					
TEGORY	1-13	16-30	31-45	46-66	01-90	91-120	121-180	181-240	241-360	361-480	401+	1-90	91-416	1-ALL
11A 118	25.6 14.3 7.8	26.1	20.4	32.8 30.2 18.5	50.9 42.1 30.9	24.7 32.0 33.0	28.4 43.9 48.1	13.6 56.3 31.4	45.3 24.2	7.5	18.6	181.9	69.3 104.4 169.5	291.2 316.0 250.9
110	.9	2.1	6.2 37.4	5.3 34.8	10.1	9.1	121.0	20.7	24.0 178.0	6.7	18.6	24.5	60.2 850.3	113.7
		17.7	30.2	25.3	30.9	17.6	91,1	104.1	114.2		87,4	130.6	304.ü	696
FRAGE 1							711	4E IN A11	UTES					
LTEGORY I	10-4	22.7	37.5	54.0	74.5	103.6	121-160	161-240	241-360	361-480	481+	1-90	41-411 138,6	1+ALL 36.7
IIA IIB	11-3	24.4	38.6	54.9	74.4	106.7	153.1	205.9	102.0 290.0 267.7	441.3	559.0	33.6	176.4	61.5 76.5
iić • 111	10-6	23.0	38.7	53.0	76.4	108.7	143.1	207.1	289.9	429.6	727.3	42.5	729.9 201.4	124.3
1 1	11.4	24.7	39.3	54.3	74.4	106.1	191.0	200.2	297.9	*14.6	582,4	40.6	234.6	124.0
RFQUENCY	OF 0	CCURRE	NC E		ALL			OBSERVA		R5)				
LTEGORY	1-15	15-30	31-45 97	46-60	61-90	91-120	121-140	161-240 161-240 6	NUTES 241-360 1	361-480	481+	1-90	91-ALL	1-411 722
1 1 A 1 1 B	135	130	59	48 31	4.0	25	27	18	÷	2		420	81 72	501 309
11C 1 • 111	°7	7	11	3 t 3 9	10	7	3	107	9	ı į	20	42 354	30 242	72 610
i : ' ' ' ' '	94		64	*3		35	52	33	24		14	302	166	488
OTAL TIP	•E 1N	FACH 0	URATEO	N HOUR	S AND	TENTHS	**	ME IN HI	MUTES					
ATEGORY I	1-15	16-30	31-45	48-60	01-90 74-4	91-120	121-100	181-240	241-360	301-460	401+	1-90	11-ALL 107.6	1-ALL 418.3
114 116	24.5	30.6	38.L 27.5	43.4	39.4	45.0	49.4	41.4 34.9	45.3	13.4	40.4	210.7	231.0	443.5 372.7
i i c	1.4	2.8		6.2	12.6	12.5	12.2	24.2	24.2	14.1	319.0	30.6	127.0	1380.9
i t - 111	10.6						129.3	114.0	139.1		155.7	194.9	767.7	962.5
VERAGE 1	1 3 411	N 64C4	DURAT	IOH HI	NUTES	AND, TEM	THS TI	ME IN MI	25100					
1	1-15	22.5	37.4	94.5	72.6	194.7	121-180	181-240	241-300	361-483	481+	1-90	91-ALL 137.3	1-4LL 34.8
114 116	10.9	23.4	34.7	54.5 56.4	74.2	107.4	194.1	204.5	302.0	400.5	696,0	31.0	171.9	53.1 72.4
Li¢	17.0	23.6	40.8	93.4	76.9	107.0	145.0	206.6	289.7 289.6 298.0	424.0	605.8 730,1	49.7	254.4	130.4

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INDIE TY!	TEMPERATU	ME > 32	DEGREES	PORTLAND, INTE (F), WITH FOG, NO PR 0 - 1900 (25971 065	ECIPITATION, AND WEND ERVATION HOURS:	9-12 KM	DTS. Y 1994 -	-	R 1965
PREQUENCY O	F DCCURREN	IC E		TIME I	M MINUTES				•
CATEGORY 1	-19 16-90 3 1	31-45 40 1	6-60 61-9	0 91-120 121-180 181	-140 241-360 361-480	401+	1-90 + 2	+1-ALL	1-ALL
	2 1 1	5					1 5 2		1 5
TOTAL TIME	IN EACH DU	JR 4710H P	HOURS AND	TENTHS					
CATEGORY 1	-15 16-30 :6 .4	\$1-45 40	6-60 61 -9	TIME 1 0 91-120 121-180 181	H HIMUTES -200 201-300 361-480	461+	1-90 1.0	₹1-ALL	1-ALL 1.0
1116 11 • 111 111	.4	1.2					2 1 1-1		2:1 1:1
AVERAGE TIM	E IN EACH	DURATIO	N HINUTE!	AND TENTHS	h				
11 1	1-15 16-80 11.3 24.0 13.0	40.0	6-60 61-1	0 4)-150 151-180 161	N MINUTES -240 241-360 341-420	481+	1-90 14.3 27,5	#1-ALL	1-ALL 14.5 27.5
1110	25.0 14.0 24.0 25.0	35.5 40.0					29.0 24.6 32.3		25.0 24.6 32.5
			141	0 - 2100 (19224 UBS	ERVATION HOURS)				
FREQUENCY C		•		TIME !	N MINUTES				
[]] [4]] [6	1	31-43 4	0+60 61-	0 41-150 [21-180 181	-240 241-360 361-480	4814	1- 9 0	91-ALL	1-411
111 • 111 111 • 111	i i						1 2 2		1 2 2
TOTAL TIME	IN PACH D	URATION I	HOURS AN	TENT'IS	IN MINUTES				•
11 1114	1-15 16-30 .5	31-45 4	6-60 61-	0 91-120 12)-140 16	-240 241-360 361-480	+01+	1-90	91-ALL	1-4LL .5
1110	.2						. 2		- 2
111 • 111	:2 :3						:7		:7
				AND TENTHS TIME	IN MINUTES				
11			4-40 61-	0 91-120 [2]-180 16	1-240 241-340 341-480	461+	1-90	91-ALL	1-ALL
1118 1118	29.0						29.0		27.0
11 • 111	12.0 12.0 29.0 12.0 29.0						12.0 20.5 20.5		12.3 20.5 20.5
		W/ 4	**	00 - 0600 (32877 09	SERVATION HOURS)				
	OF GCCURRE			TIME	IN MINUTES	4814	1-95	81-4 11	1-411
CATEGORY	1-15 10-30	31-45 4	**-*0 *1-	TIME		461+	1-90	91-ALL	1-ALL
CATEGORY II ILIA ILIB	1-15 10-30	31-43 4		TIME	IN MINUTES	461+		91-ALL	
CATEGORY II ILIA	1-15 10-30	31-45 4	10-00 bl-	TIME	IN MINUTES	461+	1	91-ALL	3
CATEGORY II ILIA ILIB ILIC II + III	1-15 10-30 1 1 1 1	31-49 4	1 1 2 2	TIME PO 91-120 121-160 18 D TENTYS	IN MINUTES 1-240 241-360 361-460	461+	3	91-ALL	3 1
CATEGORY II ILIA ILIB ILIC II + III ILI TOTAL TIME CATEGORY	1-15 10-30 1	31-49 4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2	TIME PO 91-120 121-180 18 D TENTUS TIME	IN MINUTES	481+	3 3 1 9 2	91-ALL	3 3 1 9 2
CATEGORY II IIIA IIIB IIIC II + III IIII TOTAL TIME CATEGORY II	1-15 10-30 1 1 1 1	31-49 4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 HOURS 4H	TIME PO 91-120 121-180 18 D TENTUS TIME	IN MINUTES 1-240 241-360 361-480		1-90 1.4		3 3 1 5 2
CATEGORY 11 111A 111B 111C 11 + 111 111 TOTAL TIME CATEGORY 11 111B 111C	1-15 10-30 1 1 1 1 1 1 IN EACH D 1-15 10-30	31-45 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 2 2 HOURS AN	TIME PO 91-120 121-180 18 D TENTUS TIME	IN MINUTES 1-240 241-360 361-480		1-90 1.4 1.8		1-ALL 1-4 1-4 1-0
CATEGORY II ILIA ILIB ILIC II + III III TOTAL TIME CATEGORY II ILIA ILIA	1-15 10-30 1 1 1 1 1 1 (N EACH D	31-45 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 2 2 HOURS 4H	TIME PO 91-120 121-180 18 D TENTUS TIME	IN MINUTES 1-240 241-360 361-480		1-90 1.4		3 3 1 5 2
CATEGORY II IIIA IIIB IIIC III + III III TOTAL TIME CATEGORY III IIIA IIIC III + III IIII	1-15 10-30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31-45 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 HOURS 4H 46-60 61-0 1.0 1.9 1.9	TIME PO 91-120 121-180 18 D TENTAS TIME PO 91-120 121-180 18	IN MIMUTES 1-240 241-360 361-480 IM MIMUTES 1-260 241-36C 361-480		1-90 1.4 1.9 2.0		1-ALL 1.4 1.9 1.0
CATEGORY II IIIA IIIB IIII IIII ITOTAL TIME CATEGORY II IIIA IIIB IIIC III + III IIII IIIA IIIB IIIC II + III IIII AVERAGE TI CATEGORY II	1-15 10-30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31-49 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 HOURS AN 60-60 61- 1.0 1.0 1.9 1.0 9 8.0	TIME PO 91-120 121-180 18 D TENTAS TIME PO 91-120 121-180 L8	IN MINUTES 1-240 241-360 361-480		1-90 1.4 1.9 1.0 3.3 1.9		1-ALL 1-4 1-6 1-0 3-3 1-9
CATEGORY III IIIA IIIB IIIC II + III TOTAL TIME CATEGORY III AVERAGE TI CATEGORY III IIII IIII IIII IIII IIII IIII II	1-15 10-30 1	31-49 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 HOURS AN MODEL OF 1.0 1.0 1.9 1.7 OR MINUTF 98-00 01-58.0 58.0 58.0 58.0	TIME PO 91-120 121-180 18 D TENTAS TIME PO 91-120 121-180 L8	IN MIMUTES IMPAINUTES IN 241-34C 361-480 IN MIMUTES	401+	1-90 1.4 1.9 1.0 1.0 27.0 27.0 38.7 38.7	◆1-ALL	1-ALL 1.4 1.0 1.0 1.7 1-ALL 27.0 38.7 59.0
CATEGORY III IIIA IIIB IIIC II + III III TOTAL TIME CATEGORY III IIIA IIIC II + III III AVERAGE TI CATEGORY II IIIB IIIIC	1-15 19-30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 31-45 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 2 2 MOURS AN 66-60 61- 1.0 1.9 1.9 1.9 98-0 61- 58.0	TIME PO 91-120 121-180 18 D TENTHS TIME PO 91-120 121-180 18 , AND TENTHS TIME PO 91-120 121-180 18	IN MIMUTES IN MIM	401+	1-90 1.4 1.9 1.0 3.3 1.9 1-90 27.0 38.7 58.6	◆1-ALL	1-ALL 1.4 1.9 1.9 1.9 1-ALL 27.0 38.7 59.0
CATEGORY III IIIA IIIB IIIC II + III IIIA IIIA IIIA IIIA IIIA IIIA	1-15 19-30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31-45 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 2 HOURS 4H 40-60 01-0 1.0 1.0 1.0 1.0 9 1.0 9 1.0 9 8.0 98.0 98.0 98.0	TIME PO 91-120 121-180 18 D TENTAS TIME PO 91-120 121-180 18 AND TENTAS TIME PO 91-120 121-180 18	IN MIMUTES In 241-340 361-480 IN MIMUTES In 241-340 361-480 IN MIMUTES In 241-300 361-480 IN MIMUTES IN MIMUTES IN MIMUTES	401.	1-90 1.4 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	•1-ALL	1-ALL 1.4 1.0 1.0 1.7 1-ALL 27.0 38.7 59.0
CATEGORY III IIIB IIII IIII IIII TOTAL TIME CATEGORY III IIIA IIII IIII IIII AVERAGE TI CATEGORY IIII IIII IIII IIII IIII IIII IIII I	1-15 19-30 1 1 1 1 1 1 IN EACH 0 1-15 10-30 -7 -4 -2 -4 ME IN PACH 1-13 10-30 1-15 10-30 1-10 0 24-0 0F OCCURR(1-15 16-36 4	31-45 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 HOURS AN ANDERS AND	TIME PO 91-120 121-180 18 D TENTAS TIME PO 91-120 121-180 18 AND TENTAS TIME PO 91-120 121-180 18	IN MIMUTES IN MIM	401+	1-90 1.4 1.9 1.0 1.0 27.0 27.0 38.7 38.7	◆1-ALL	1-all 1-4 1-9 1-9 1-9 1-9 1-9 1-4 27-0 38-7 38-7 39-4
CATEGORY III IIIA IIIB IIIC II + III IIIA IIIA IIIA IIIA IIIA IIIA	1-15 19-30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 31-45 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 2 HOURS 4H 40-60 01-0 1.0 1.0 1.0 1.0 9 1.0 9 1.0 9 8.0 98.0 98.0 98.0	TIME PO 91-120 121-180 18 D TENTAS TIME PO 91-120 121-180 18 AND TENTAS TIME PO 91-120 121-180 18	IN MIMUTES In 241-340 361-480 IN MIMUTES In 241-340 361-480 IN MIMUTES In 241-300 361-480 IN MIMUTES IN MIMUTES IN MIMUTES	401.	1-90 1.0 1.0 1.0 1.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	•1-ALL	1-ALL 1-ALL 27-0 98-7 99-0
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